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DAILY MAGNETograms FOR 1981 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
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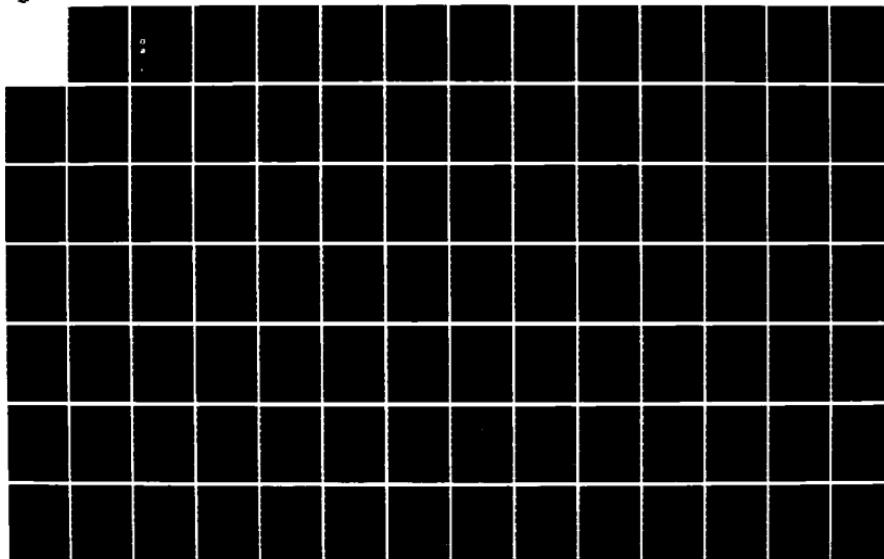
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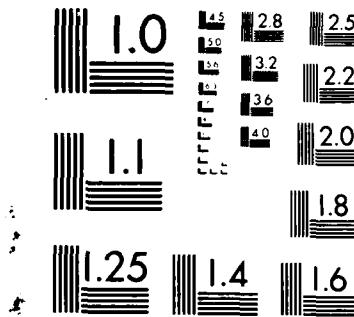
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AFGL-TR-85-0030
SPECIAL REPORTS, NO. 246

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Daily Magnetograms for 1981 From the AFGL Network

DAVID J. KNECHT



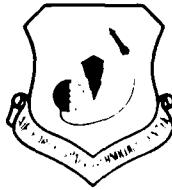
28 February 1985



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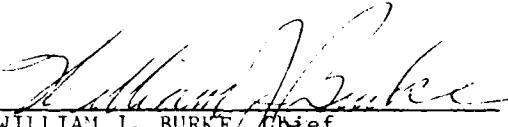
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SPACE PHYSICS DIVISION
AIR FORCE GEOPHYSICS LABORATORY
PROJECT 7601
HANSCOM AFB, MA 01731
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"This technical report has been reviewed and is approved for publication"

FOR THE COMMANDER



William J. Burke

WILLIAM J. BURKE, Chief
Space Plasmas and Fields Branch



Rita C. Sagalyn

RITA C. SAGALYN, Director
Space Physics Division

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SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESPONSIBILITY FOR MAINTAINING SECURITY CLASSIFICATION <i>A1193-958</i>			
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited.			
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S) AFGL-TR-85-0030 SR. No. 246		5. MONITORING ORGANIZATION REPORT NUMBER(S)			
6a. NAME OF PERFORMING ORGANIZATION Air Force Geophysics Laboratory	6b. OFFICE SYMBOL <i>PHG</i>	7a. NAME OF MONITORING ORGANIZATION			
6c. ADDRESS (City, State and ZIP Code) Hanscom AFB Massachusetts 01731		7b. ADDRESS (City, State and ZIP Code)			
8a. NAME OF FUNDING/SPONSORING ORGANIZATION	8b. OFFICE SYMBOL <i>PHG</i>	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER			
8c. ADDRESS (City, State and ZIP Code)		10. SOURCE OF FUNDING NOS			
11. TITLE (Include Security Classification) Daily Magnetograms for 1981 from the AFGL Network		PROGRAM ELEMENT NO 62101F	PROJECT NO 7601	TASK NO 18	WORK UNIT NO 01
12. PERSONAL AUTHOR(S) David J. Knecht					
13a. TYPE OF REPORT Inhouse	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Yr. Mo. Day) 1985 February 28		15. PAGE COUNT 4-4	
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block numbers) Magnetograms Magnetic storms Variations Magnetic field Substorms Geomagnetism Network Ground measurements			
19. ABSTRACT (Continue on reverse if necessary and identify by block numbers) A stacked plot of 24-hour magnetograms from the AFGL Magnetometer Network is presented for each UT day of the year 1981. Each plot, on a single page, contains all 21 traces from the fluxgate magnetometers of the network (three components at seven stations). The data plotted are 2-min averages of the 1-min edited data set that has been provided to the World Data Center. To aid in comparisons between days, the magnetograms are plotted with a fixed amplitude scale that preserves a resolution of one or two nanotesla. For the days that are more active, the plots have been repeated at a reduced amplitude. These magnetograms serve to assess the general character of magnetic activity, identify events for scientific study, and indicate the coverage and quality of the data available from the World Data Center.					
20. DISTRIBUTION AVAILABILITY OF ABSTRACT UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input checked="" type="checkbox"/> DTIC USERS <input type="checkbox"/>		21. ABSTRACT SECURITY CLASSIFICATION Unclassified			
22a. NAME OF RESPONSIBLE INDIVIDUAL David J. Knecht		22b. TELEPHONE NUMBER <i>617-861-2433</i>	22c. OFFICE SYMBOL PHG		

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Preface

This volume of magnetograms from the AFGL Magnetometer Network is the fourth in a set of six yearly volumes covering the years 1978 through 1983. Descriptive material needed to explain the magnetograms is repeated so each volume can be used independently.

These volumes are dedicated to the memory of Robert W. Crowe, who, as a high-school student, carried out much of the computer work that produced the edited data shown in these plots and who lost his life in October 1982 while the work was under way.

Many other persons have also contributed greatly to this effort. The project, which required reading more than 1200 input data tapes, writing more than 4500 edited-data tapes, and making and assembling more than 6500 separate plots for these volumes, was made possible by the dedicated efforts of a group of college and high-school students. Armand Pabojian supervised and personally undertook much of the production of the edited data base. Ric Laperriere, Stephen Morris, Catherine Whittaker, Glenn Ellis, and Ara Topjian also contributed many hours to this work. Fr. John F. Devane, S.J., directed the contractual effort of Boston College under which most of the students work. Ric Laperriere carried out a large fraction of the production runs that produced the final plots. These generous contributions are gratefully acknowledged.

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Daily Magnetograms for 1981 From the AFGL Network

I. INTRODUCTION

From mid-1976 through 1983, the AFGL Magnetometer Network made continuous measurements of the surface magnetic field at seven stations spanning the contiguous United States. An edited data base has been produced for the period 1978-1983; it consists of three-component measurements of the field at the seven network stations by fluxgate magnetometers sampled once per second. A subset of these data, consisting of 1-min average values in the standard IMS format, is available to the scientific community through the World Data Center.

This report, one of a series of yearly volumes, presents the 1-min subset of data for the year 1981 in the form of stacked daily magnetograms, one day per page. The anticipated uses of these plots include: (1) discovering the overall pattern of magnetic activity across the United States for any day, (2) identifying events for scientific study, and (3) indicating the coverage and quality of the data available from the World Data Center.

For the basic set of 365 daily plots, the question of amplitude scale was resolved in favor of a constant value for all plots to facilitate comparison when scanning over many pages. However, for about 10 percent of all days this choice causes traces to be offscale or confused, so for these days the plot is repeated on a less sensitive scale in a subsequent section of supplemental plots.

(Received for publication 25 February 1985)

2. DESCRIPTION OF THE NETWORK

The AFGL Magnetometer Network consisted of seven remote instrumented stations at the locations shown in Figure 1 and listed in Table 1. The five northern stations form a line at approximately 55 degrees cgm latitude, while the two southern stations are both at about 40 degrees cgm latitude.

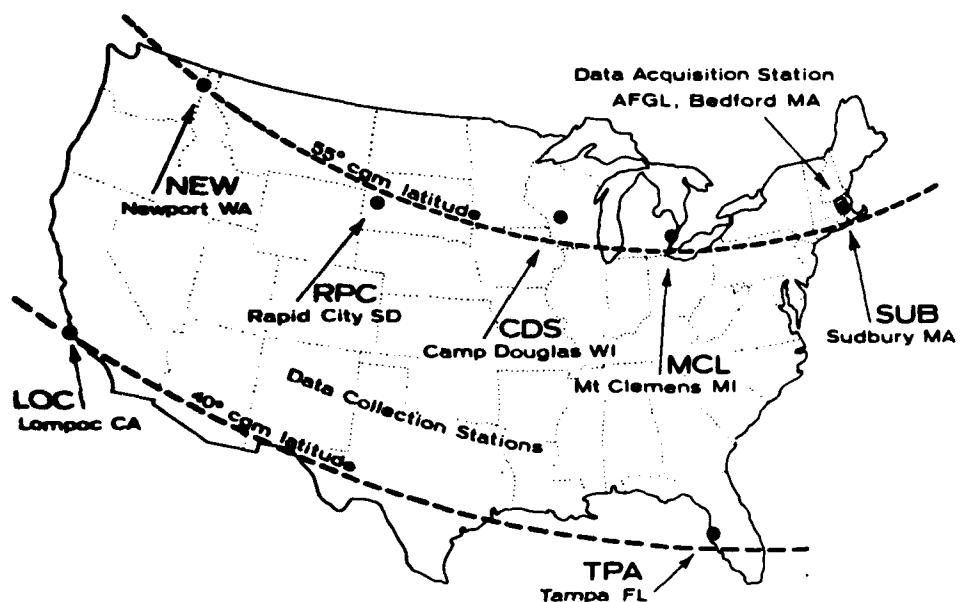


Figure 1. Map of the AFGL Magnetometer Network

The instrumentation at all sites was essentially identical. The instrument which made the measurements presented here is a three-component fluxgate magnetometer built by the University of California at Los Angeles. (Data from a second instrument, an induction-coil magnetometer, is not discussed). The fluxgate magnetometer has a basic analog (fine-scale) range of -64 to +64 nanoteslas; it is kept onscale by applying to the sensor a precise (coarse-scale) nulling field of an integral multiple of 64 nT to cover the full range of approximately -65,000 to +65,000 nT. The fine-scale output is digitized by an 11-bit analog-to-digital converter, with the least significant bit representing 1/16 nT. The instrument was sampled once per second.

Data from all stations were returned to a data-acquisition station at AFGL via a single dedicated voice-grade circuit made up largely of ordinary phone lines and

having a branch to each of the stations. A polling signal sent from the data-acquisition station synchronized all stations to within several milliseconds accuracy by incorporating compensation for propagation delays. Data collected at each station during any 10-sec sampling interval were transmitted in a block at some point during the next interval. A forward-error-correcting scheme was used to eliminate transmission errors. Data were received, compressed, formatted, and archived on magnetic tape by a dedicated minicomputer. Subsequently, several series of edited-data tapes were produced from the archive tapes, using the same minicomputer, as described in the following section.

Table 1. Locations of the Data-Collection Stations

Station Symbol and Name (post office)		Corrected Geomagnetic Coordinates		Geographic Coordinates		Government Installation
		N Lat	E Long	N Lat	E Long	
NEW	Newport WA	55.2	299.6	48.3	117.1	USGS Newport Observatory
RPC	Rapid City SD	54.1	317.3	44.2	103.1	Ellsworth Air Force Base
CDS	Camp Douglas WI	56.3	334.2	44.0	90.3	Volk Field (Natl. Guard Base)
MCL	Mount Clemens MI	55.8	344.8	42.6	82.9	Selfridge Air Natl. Guard Base
SUB	Sudbury MA	55.8	1.9	42.2	71.3	Army Natick Laboratory Annex
LOC	Lompoc CA	40.2	300.6	34.7	120.6	Vandenberg Air Force Base
TPA	Tampa FL	40.7	344.9	27.8	82.5	MacDill Air Force Base

3. EDITING OF THE DATA

The content of the archive data tapes is the series of successive data transmissions, recorded with minimal processing at the time of reception. These raw tapes are somewhat inconvenient for general use, since they reflect network malfunctions of many kinds, include other scientific and housekeeping data, and use a complex format for economy. An edited version, containing only the fluxgate measurements, was desired, and an automated procedure for processing these tapes was developed.

The editing process was designed to correct for a number of errors likely (and often known) to occur in the data because of various equipment malfunctions. The basis for detecting and assessing the errors was a set of redundancy and consistency checks built into or inherent in the data. The faults corrected (in most cases by

discarding the faulty data) included: (1) magnetometer outputs differing from a nominal quiet-time value by more than 2048 nT, (2) transmissions not confirmed to have come from the correct station, and (3) incorrect time values associated with transmissions. At the same time, the data were organized by time interval, station, and component, with missing data filled with blanks.

It may be noted that the faults addressed in editing are almost exclusively those of the collection and transmission system; the only criterion placed on the magnetometer output was that it be reasonably close to an expected value. One reason for this is that rigorous criteria for assessing the correctness of the magnetometer data are so lacking that an automated procedure is not possible. But another reason is that, for many purposes, the usefulness of the data is only slightly (or not at all) diminished by the most common malfunctions. Therefore, most failures experienced with the magnetometers are still reflected in the edited data. Since the stations were unattended, a number of days often elapsed before a malfunction was corrected, and caution is necessary in using these data. Some specific guidance is provided in Section 6 below.

4. DESCRIPTION OF THE PLOTS

The basic set of plots is presented in Section 7. It includes, for each day in the year, daily magnetograms for all three components of the seven network stations, a total of 21 traces. These are grouped into three panels by component, in the order X, Y, Z from top to bottom of the page, where X is magnetic north, Y is magnetic east, and Z is vertically downward. This alignment was only approximate, and during the early years X and Y were often rotated slightly about Z to keep the Y component slightly positive. To facilitate comparisons between adjacent stations, the traces within each panel are further ordered by plotting the 55-degree stations first, west to east, followed by the two 40-degree stations, west to east.

For the basic set of plots a common fixed amplitude scale was selected for ease in comparing between days. The value of 40 nT per major division was chosen because it kept about 90 percent of the plots onscale. A major division is the distance between the dotted baselines for adjacent traces. One minor division represents 10 nT, and a resolution of about one or two nT is preserved in the traces. For active days on which the traces go offscale or become confused by overlap, a supplementary set of plots, using a scale of 160 or 400 nT per major division is presented in Section 8. A small solid triangle following the date on the basic plot in Section 7 indicates that a supplementary plot has been provided.

Each trace is labeled at the left with a three-letter station code. Its absolute calibration is provided by the corresponding value (in nT) of the horizontal dotted

baseline. This value, appearing just below the station code, is the 24-hour mean of the data plotted, rounded to the nearest nanotesla. The station code and baseline value are omitted whenever all data points in a trace are blanks or, very rarely, when a badly malfunctioning trace has been eliminated to avoid obscuring good traces. The presence of the label usually (but not reliably) indicates that the trace is not completely blank.

The time scale covers the 24-hour UT day, with 1-hr and 10-min subdivisions. The edited data base consists of one value per minute (good datum or blank) for each of the 21 traces, but since this sampling rate exceeds the resolution possible on the page, 2-min averages were plotted instead. This results in 720 points per day, and since the full-scale length of the time axis is roughly 144 mm, the point-to-point spacing is about 0.2 mm (0.008 in.).

The date is printed at the lower left corner of each plot, first in the form day-of-month, month, year. It is repeated, in parentheses, in the form year (followed by a period) and day-of-year. As noted above, a solid triangle after the final parenthesis indicates the presence of a supplementary plot in Section 8.

5. METHOD OF PRODUCING THE PLOTS

The plots were generated by the network minicomputer (Varian model V72, vintage 1972) with 7-track tape units to read input data. The automated plot program was written in FORTRAN and incorporated Varian Dataplot software. The output device was a Tektronix type 4014 terminal equipped with a type 4631 hardcopy unit. With this equipment the plot is first drawn by an electron beam on the screen of the CRT (a storage device) and then copied to the hardcopy unit by a second beam which scans the screen; a third beam in the hardcopy unit writes the plot onto a dry-silver heat-developed paper. The three panels for each day of data were produced separately and then trimmed and taped together by hand, using overlapping registration marks for alignment. Since the image on the dry-silver paper deteriorates rapidly, the assembled plots were then copied, with a reduction to 74 percent of original size, on an IBM series III model 20 photocopier. These copies were furnished for the printer to use without further reduction.

The linearity and accuracy afforded by this method is sufficient for most purposes but does not equal that achievable by producing all three panels at once on a good electrostatic plotter and photoreducing the plots in the printshop. Some care may therefore be necessary in attempting precise measurements from these plots.

6. CAUTIONS ABOUT USE OF THE PLOTS

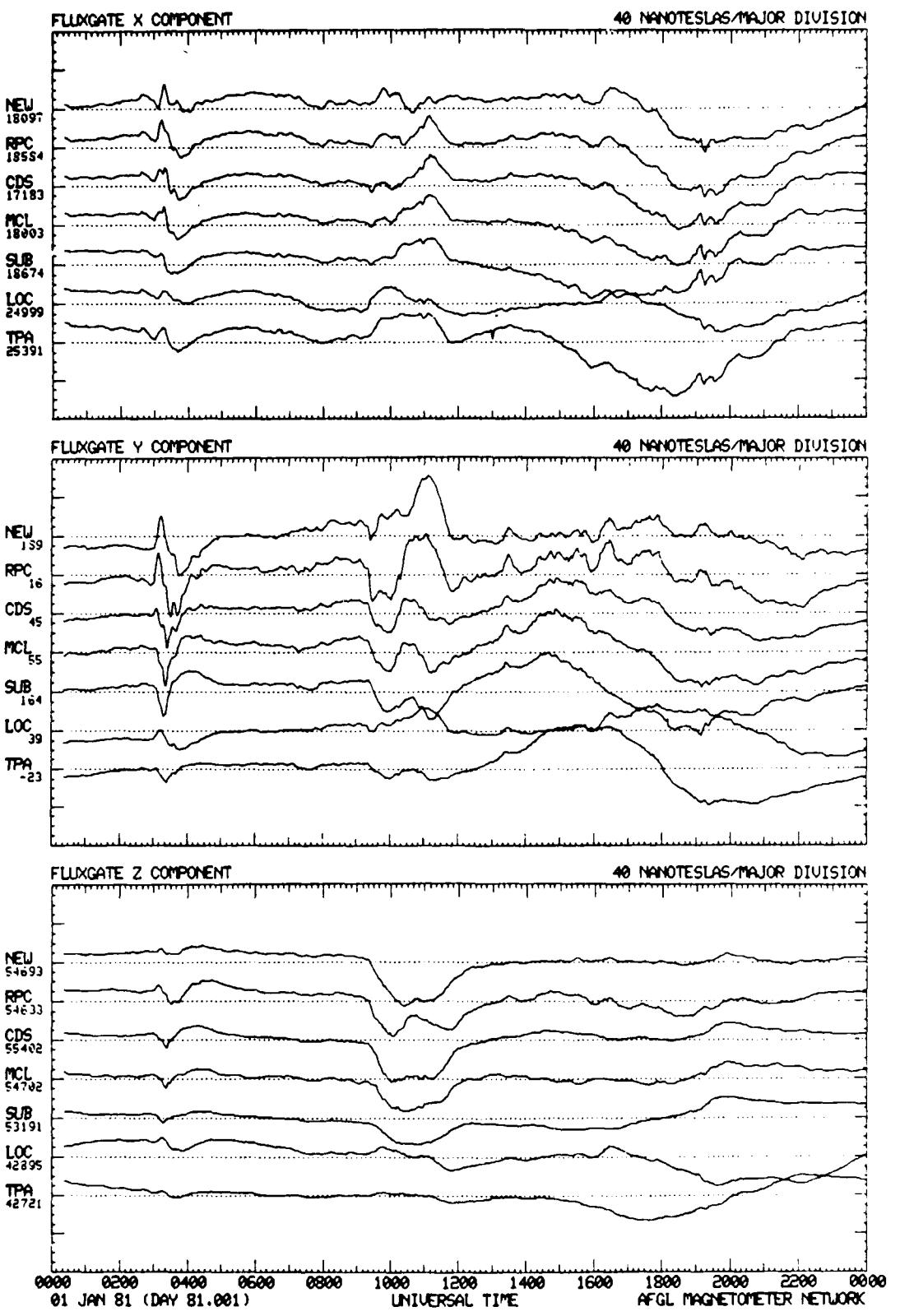
The following brief comment on some common faults in the data may be useful. Examples are given by a reference in parentheses to a plot which exhibits the particular fault described.

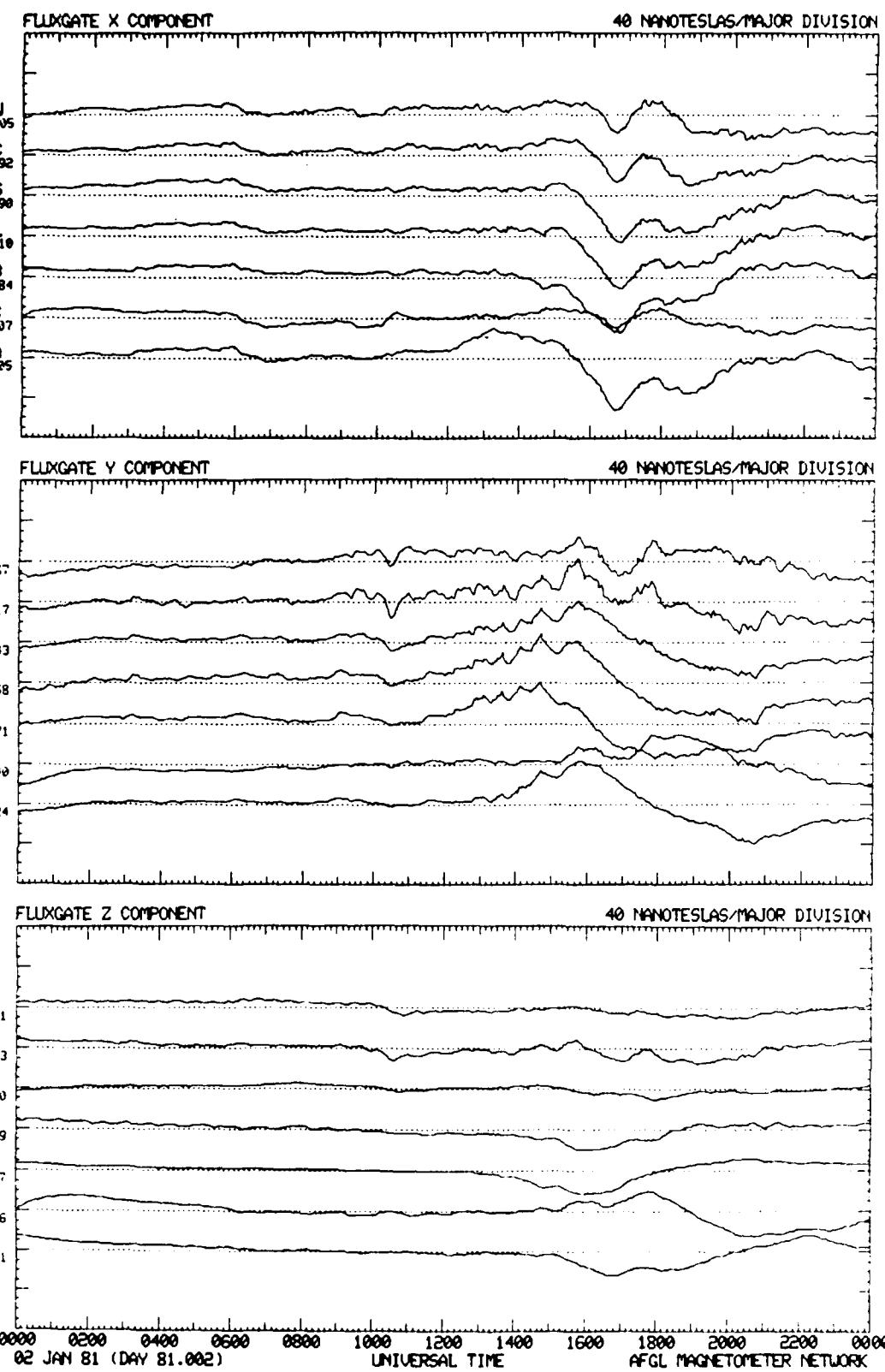
Two problems were caused by the plotting equipment: (1) Some trace labels are occasionally shifted into the middle of a panel, to the right of their proper location (09 and 23 April). This problem was ignored because it was not easy to cure and caused no serious harm. (2) The least significant digit of the baseline value for a trace is occasionally omitted (CDS-X and SUB-Z traces, 03 January). Since baseline values are all right-justified, the absence of the final digit can be seen, but the value will be uncertain by 5 nT. Again, the harm caused was not enough to justify the cost of solving it.

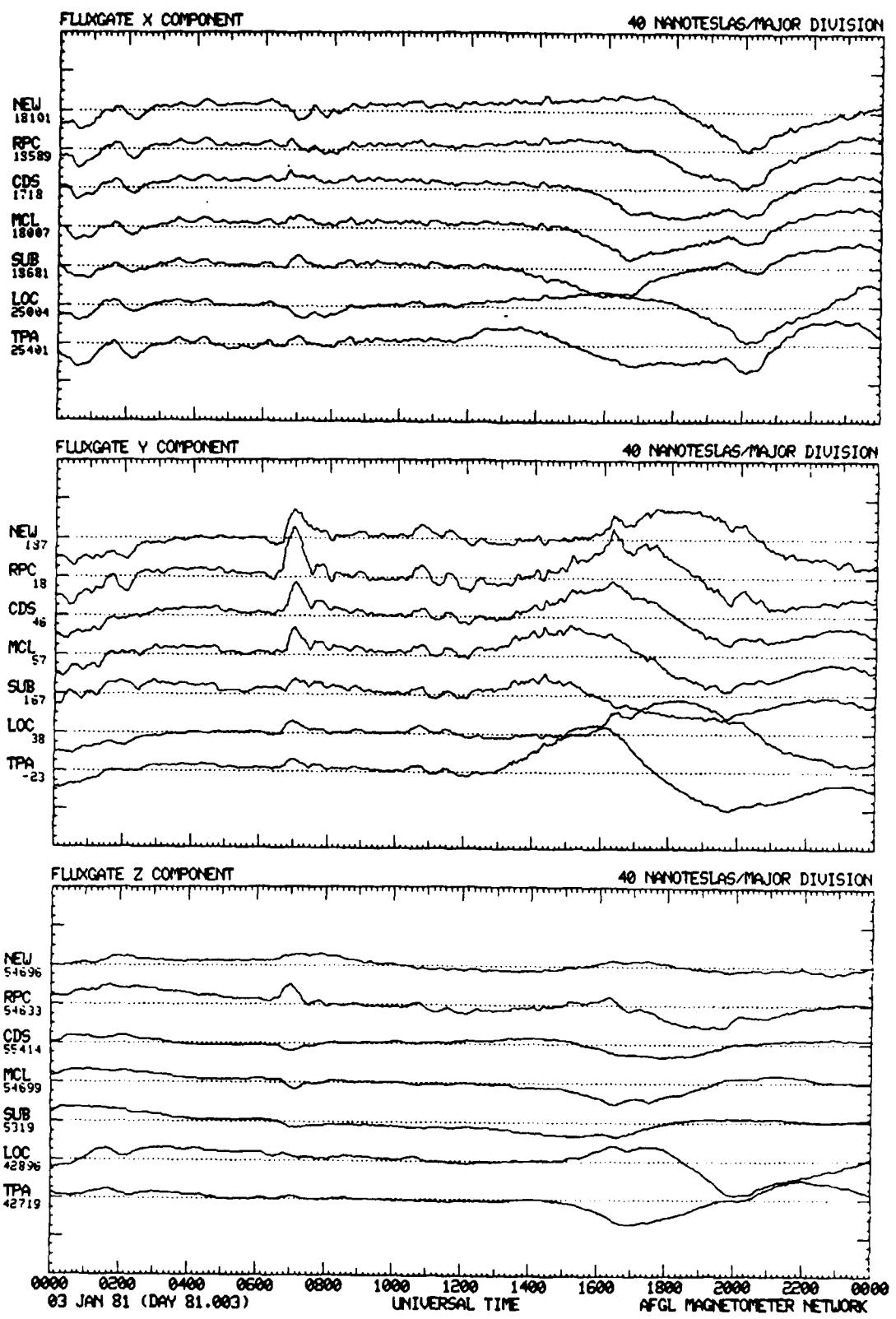
As noted earlier, data from malfunctioning magnetometers were not excluded unless they differed greatly from expected values. Usually the integrity of the data can be adequately assessed by comparing any trace with those of adjacent stations and by observing its behavior over an extended interval. Five common malfunctions are these: (1) An instrument which does not change range properly may exhibit sudden positive or negative jumps of 64 nT, the amount of one coarse-scale step (no good example in 1981, but note the MCL-Z trace, 21 August). (2) Some failures, such as a data-system bit that fails to turn on or off, cause smaller jumps (note the jumps of about 32 nT in the SUB-Z trace, 18 March). (3) Some failures cause a trace to exhibit noise, which may be large (NEW traces, 06 and 07 May) or small (NEW-Z trace, 01 September). (4) Failure of the fine-scale output causes a trace to show no activity except an occasional range-change jump of 64 nT (LOC traces, 08-13 June). (5) Failure of the temperature-compensating circuitry makes the output very dependent on electronics temperature; the trace will then reflect the regular cycles of the thermostatically controlled trailer temperature (MCL-Z trace, 21 and 27 January). (6) Other severe malfunctions can cause wild drifting (SUB-Y trace, 20, 23, and 24 March), large noise spikes (RPC-X trace, 02 March), or bursts (NEW-Z trace, 22 January). All these faults can normally be detected in the context of the stacked plots.

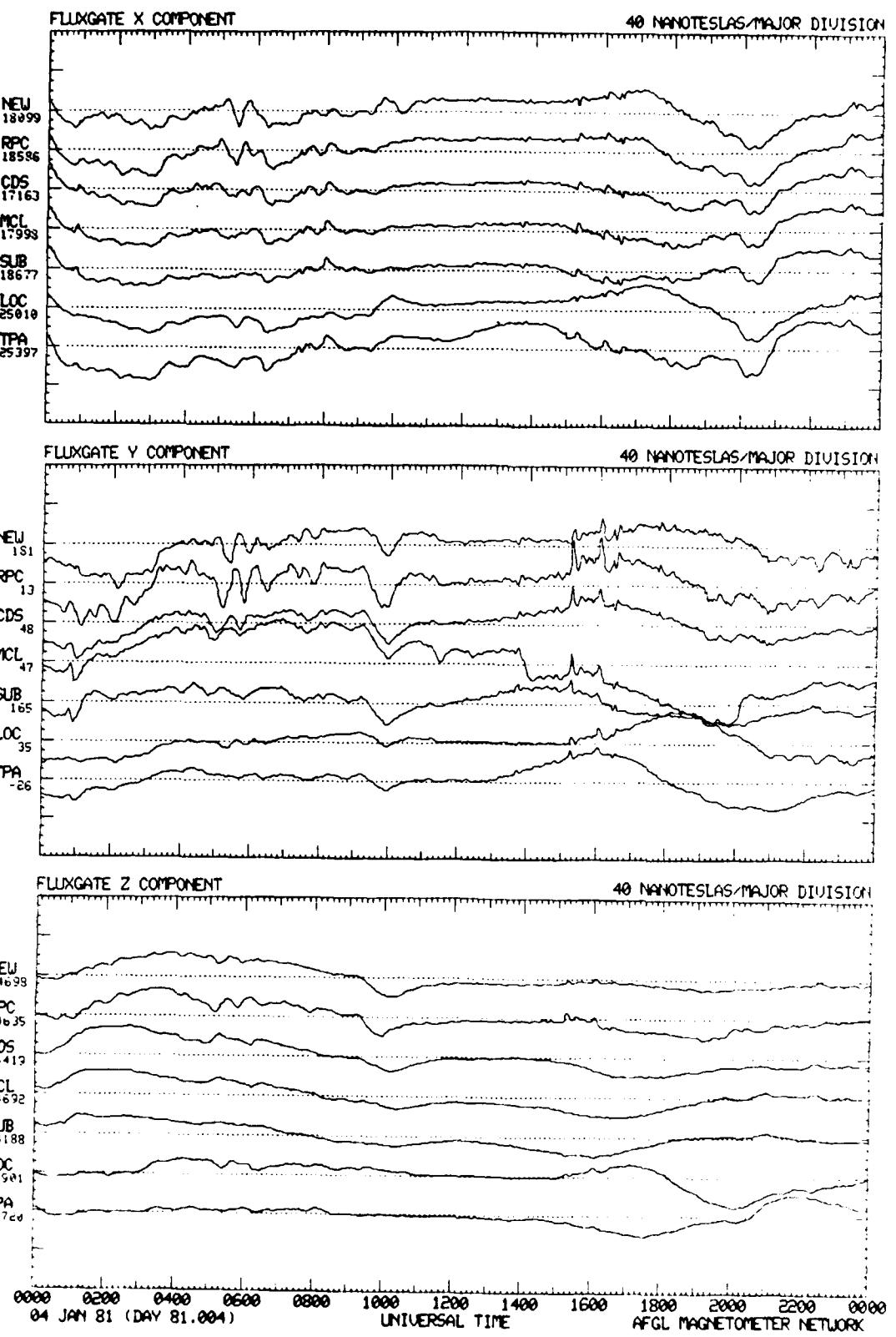
7. BASIC PLOTS AT STANDARD AMPLITUDE

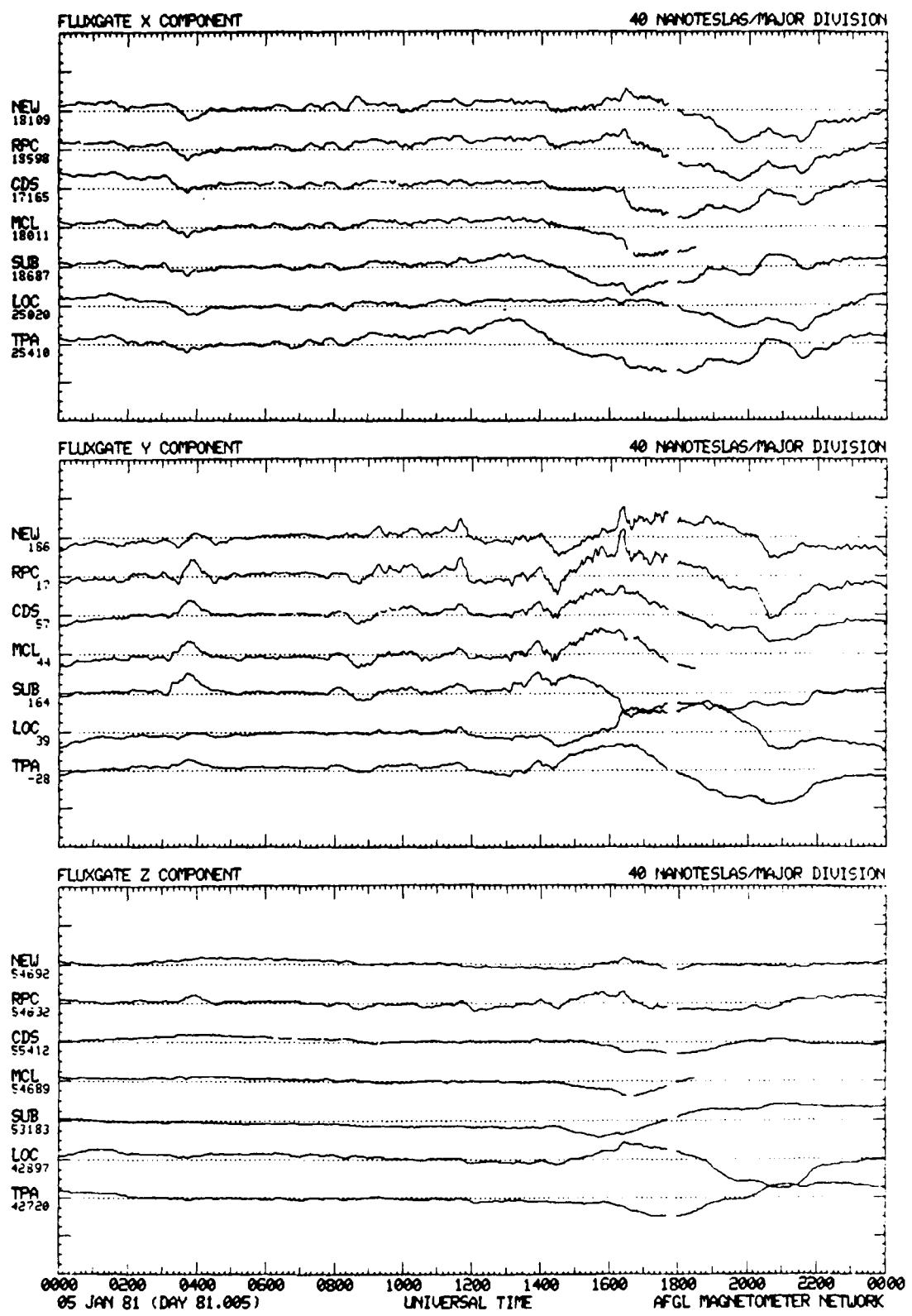
This section presents one stacked-magnetogram plot for each day of 1981, using the standard amplitude scale of 40 nT per major division.











FLUXGATE X COMPONENT

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NEU
15187
RPC
15597
CDS
17165
MCL
19805
SUB
18688
LOC
25916
TPA
25408

FLUXGATE Y COMPONENT

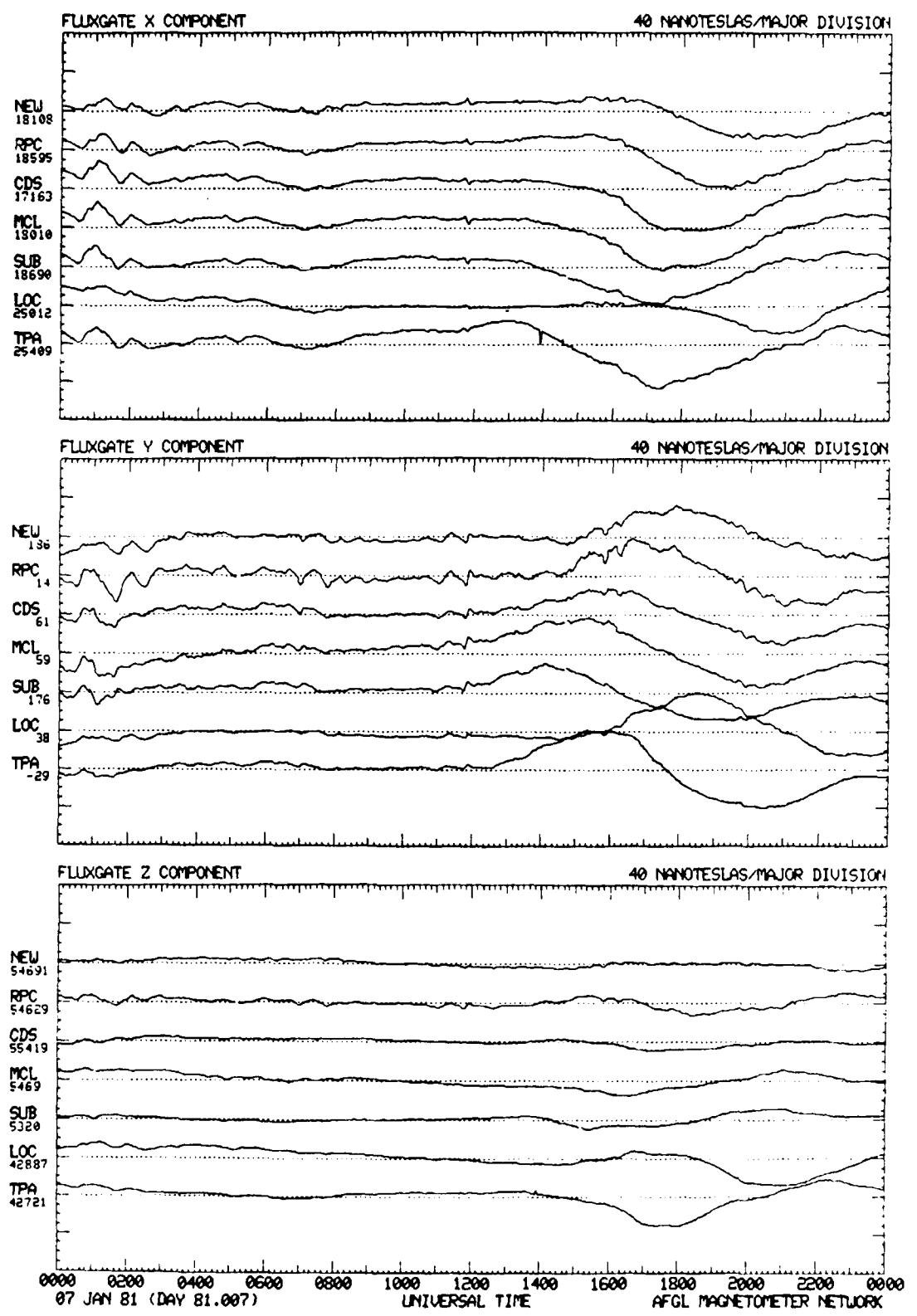
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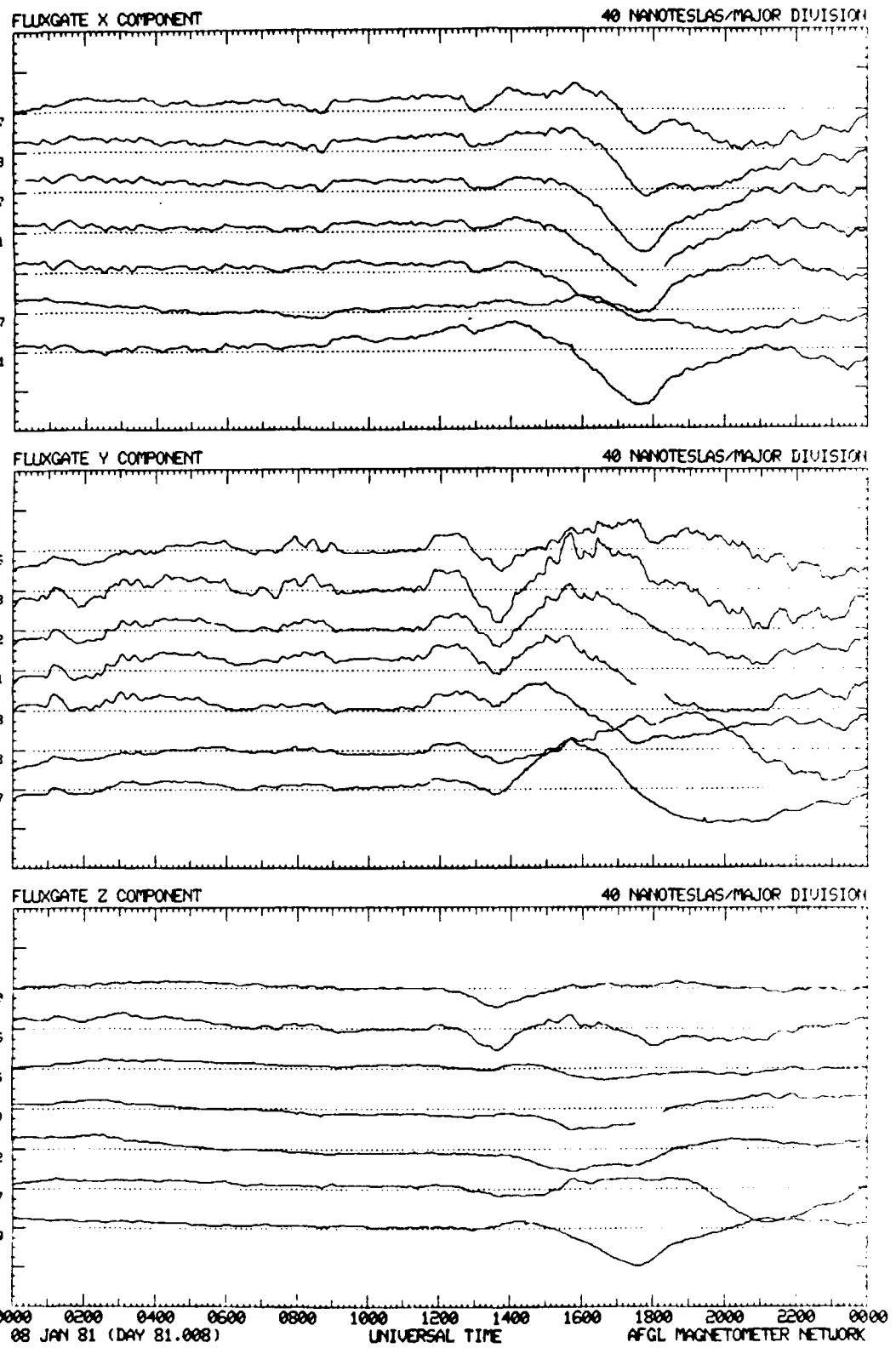
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SUB
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LOC
36
TPA
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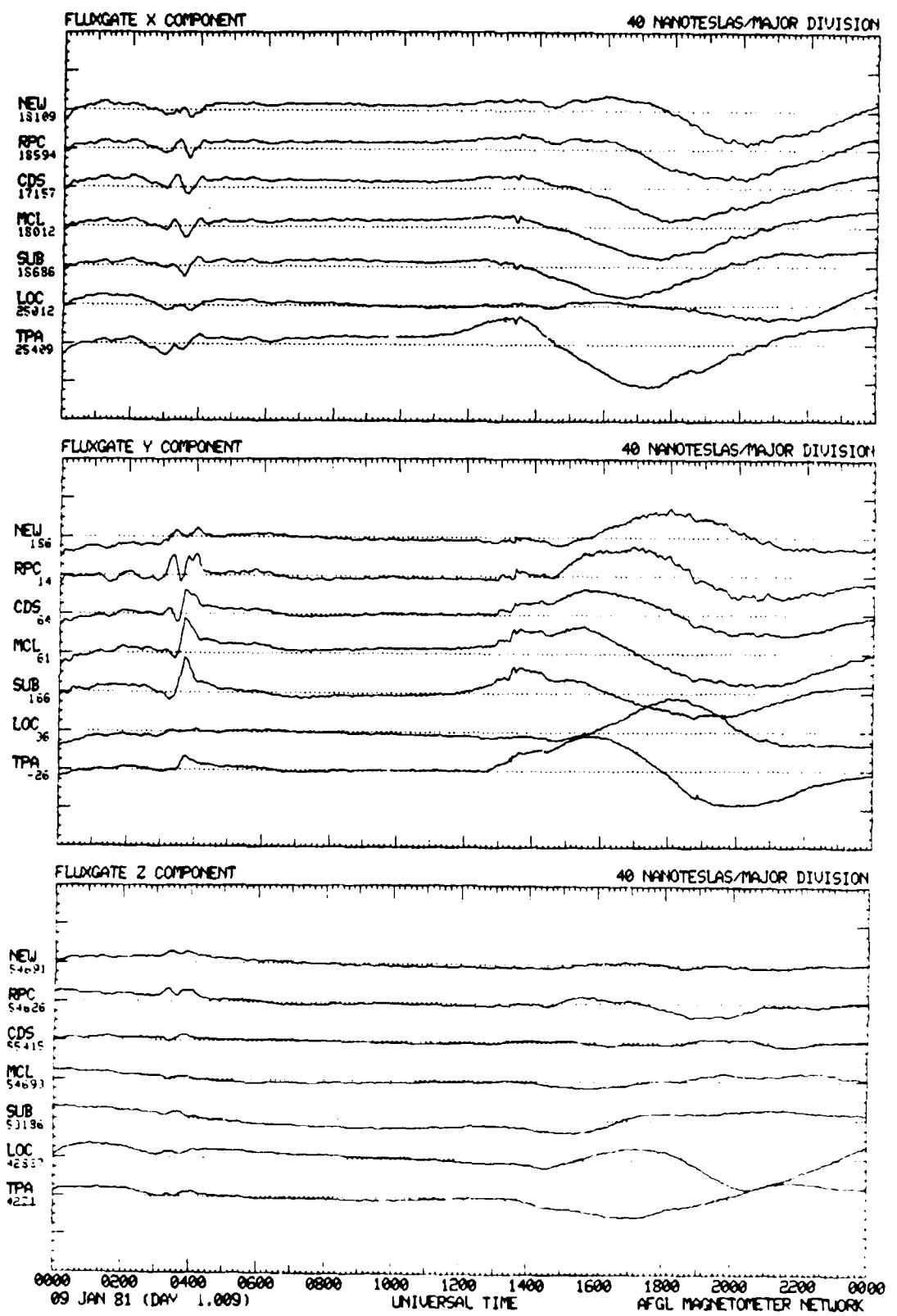
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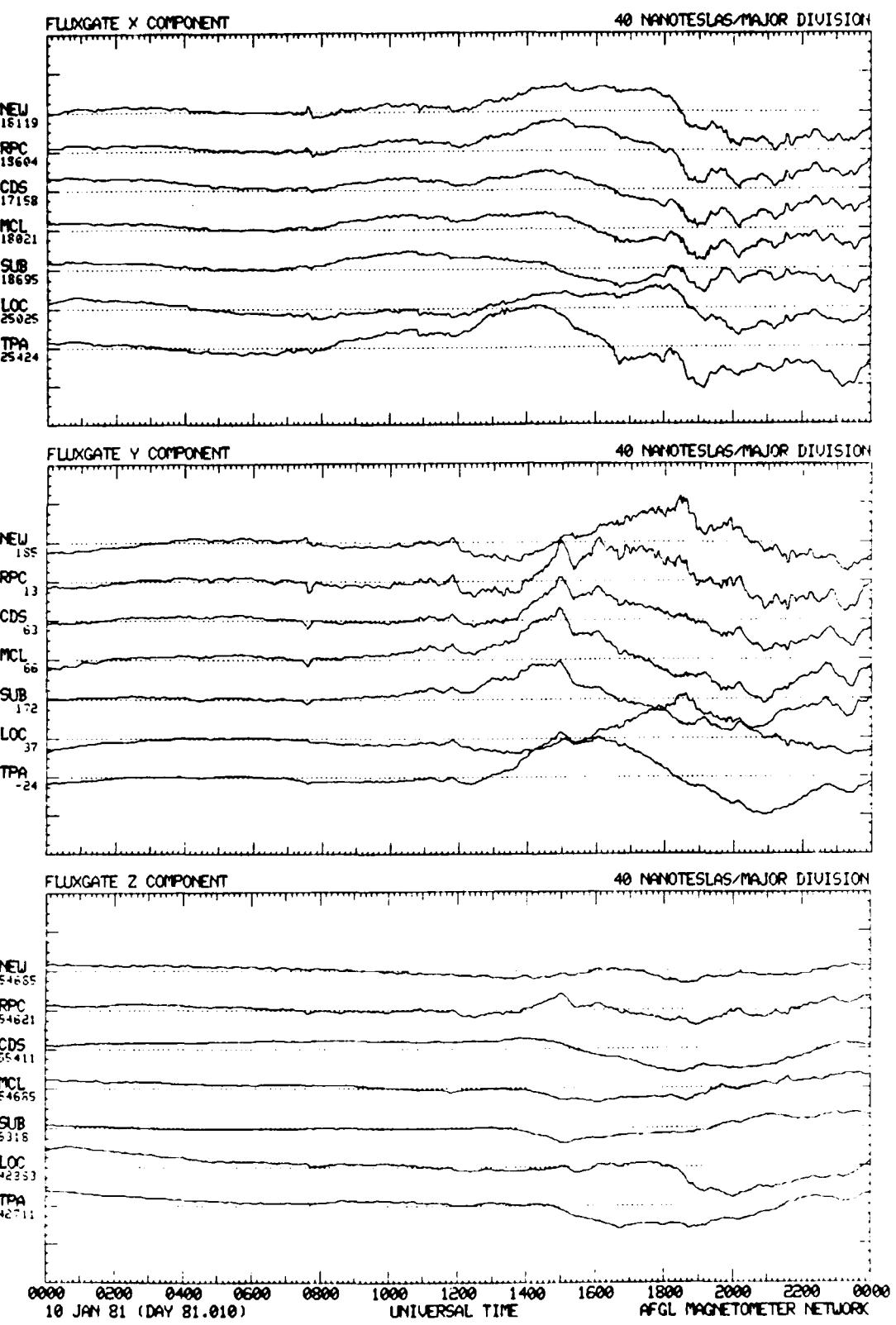
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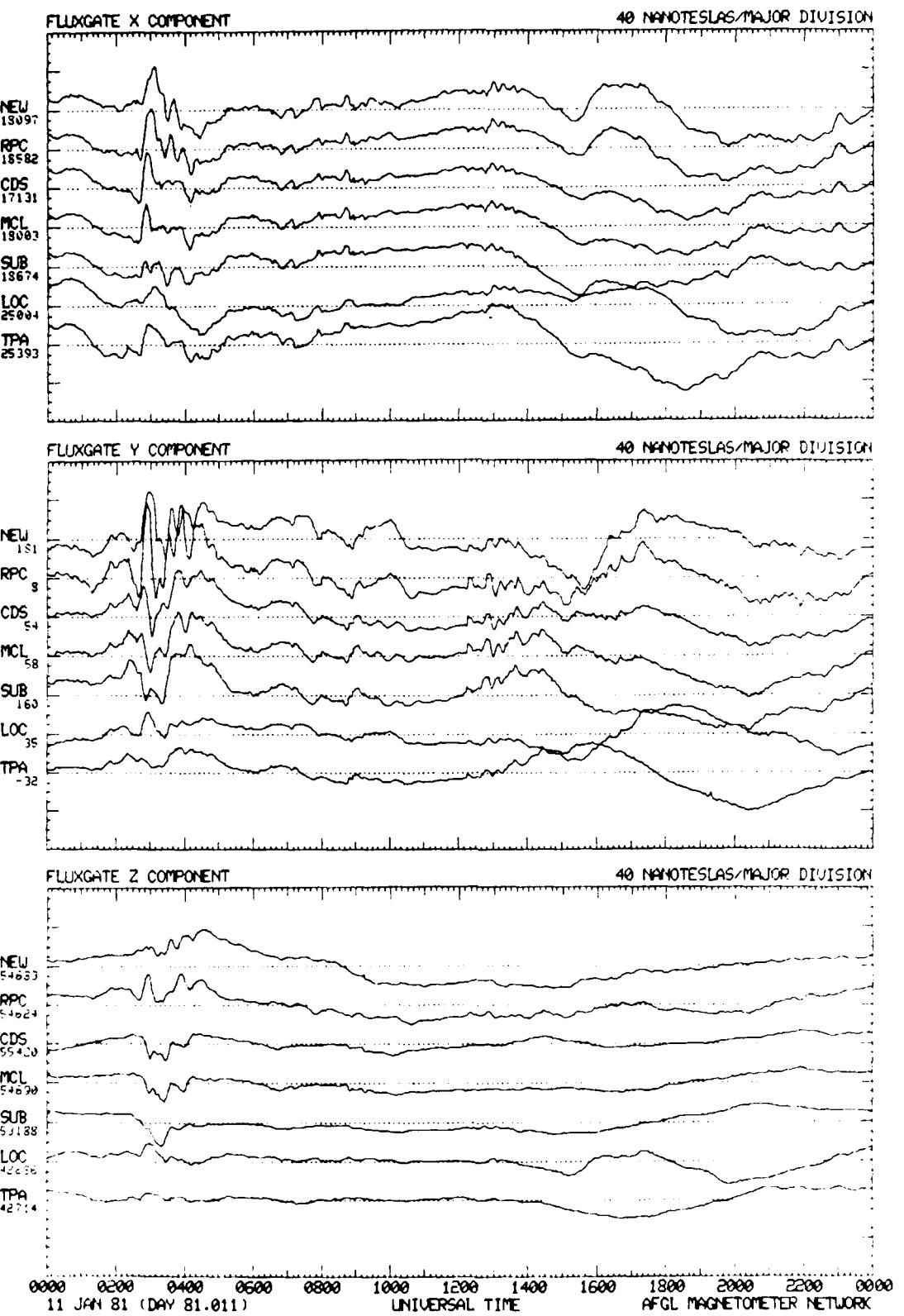
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06 JAN 81 (DAY 81.006) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

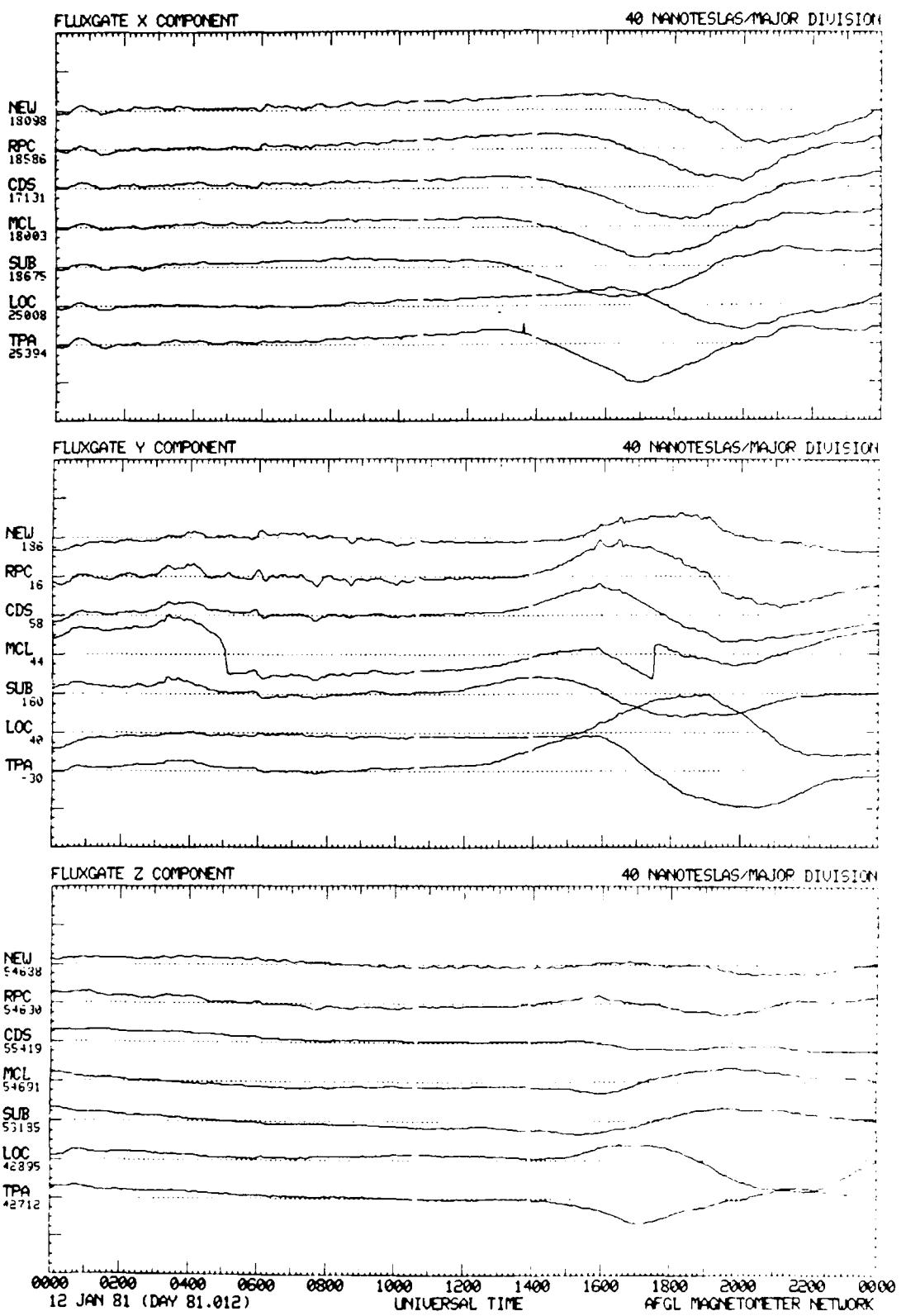


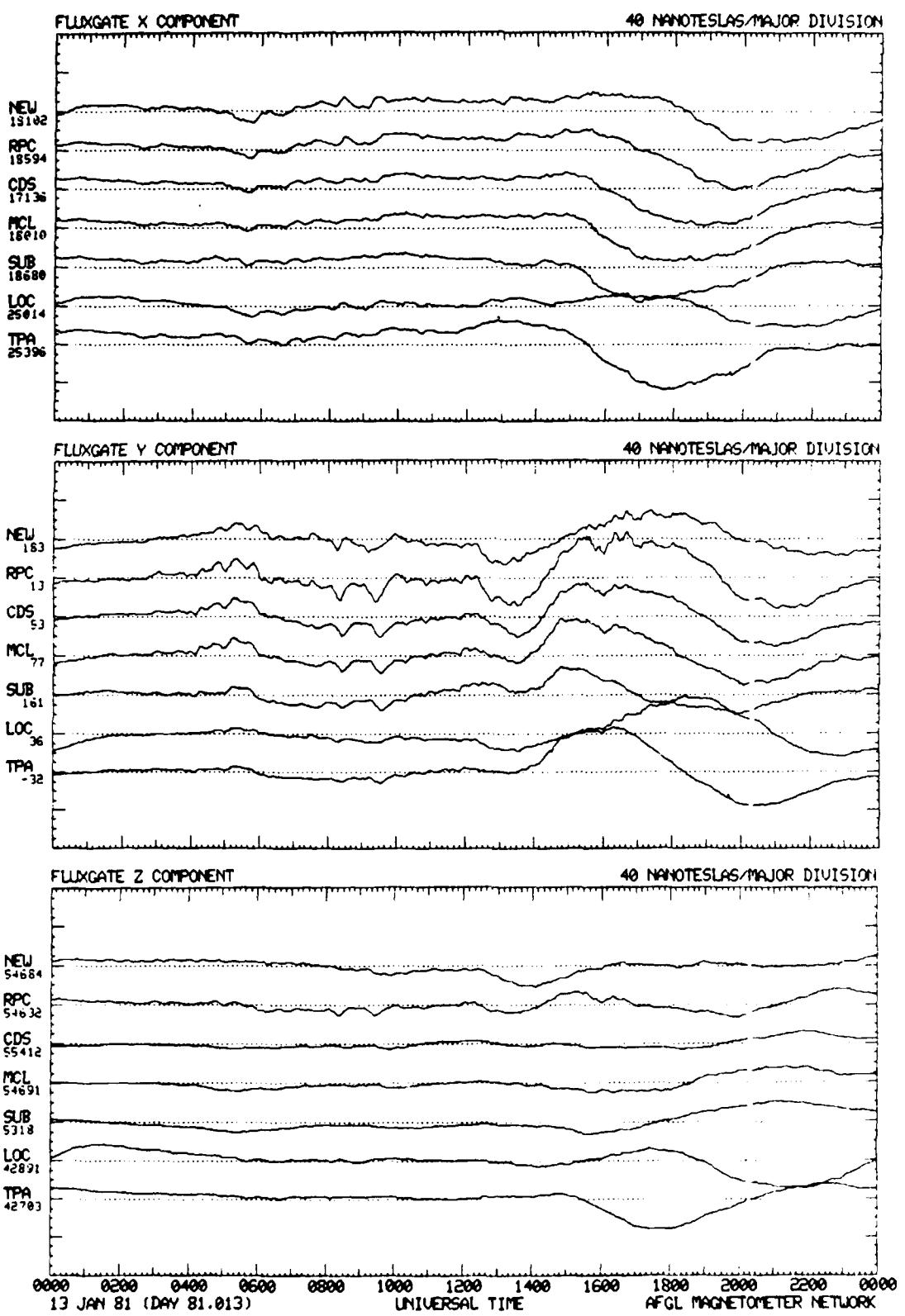


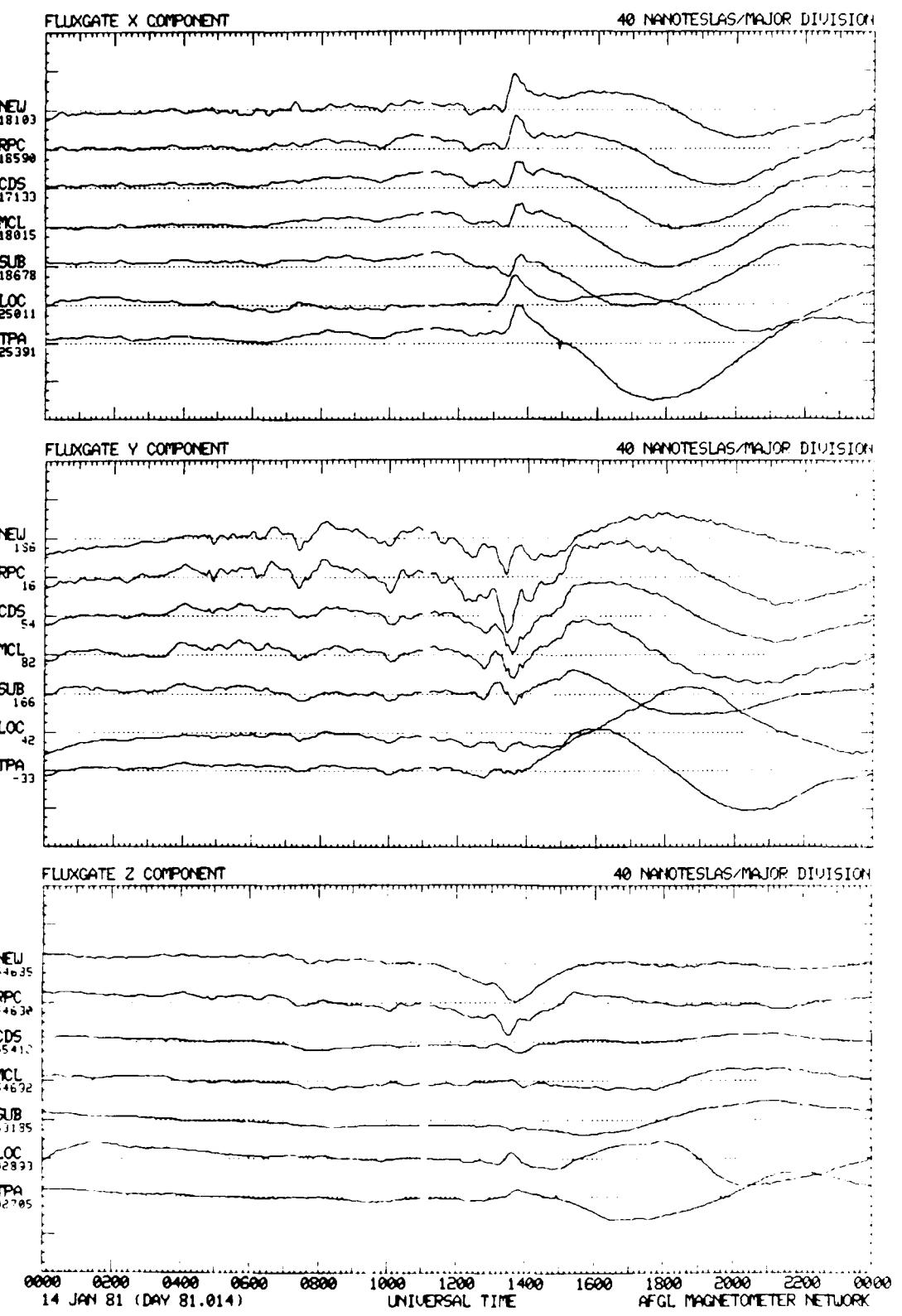


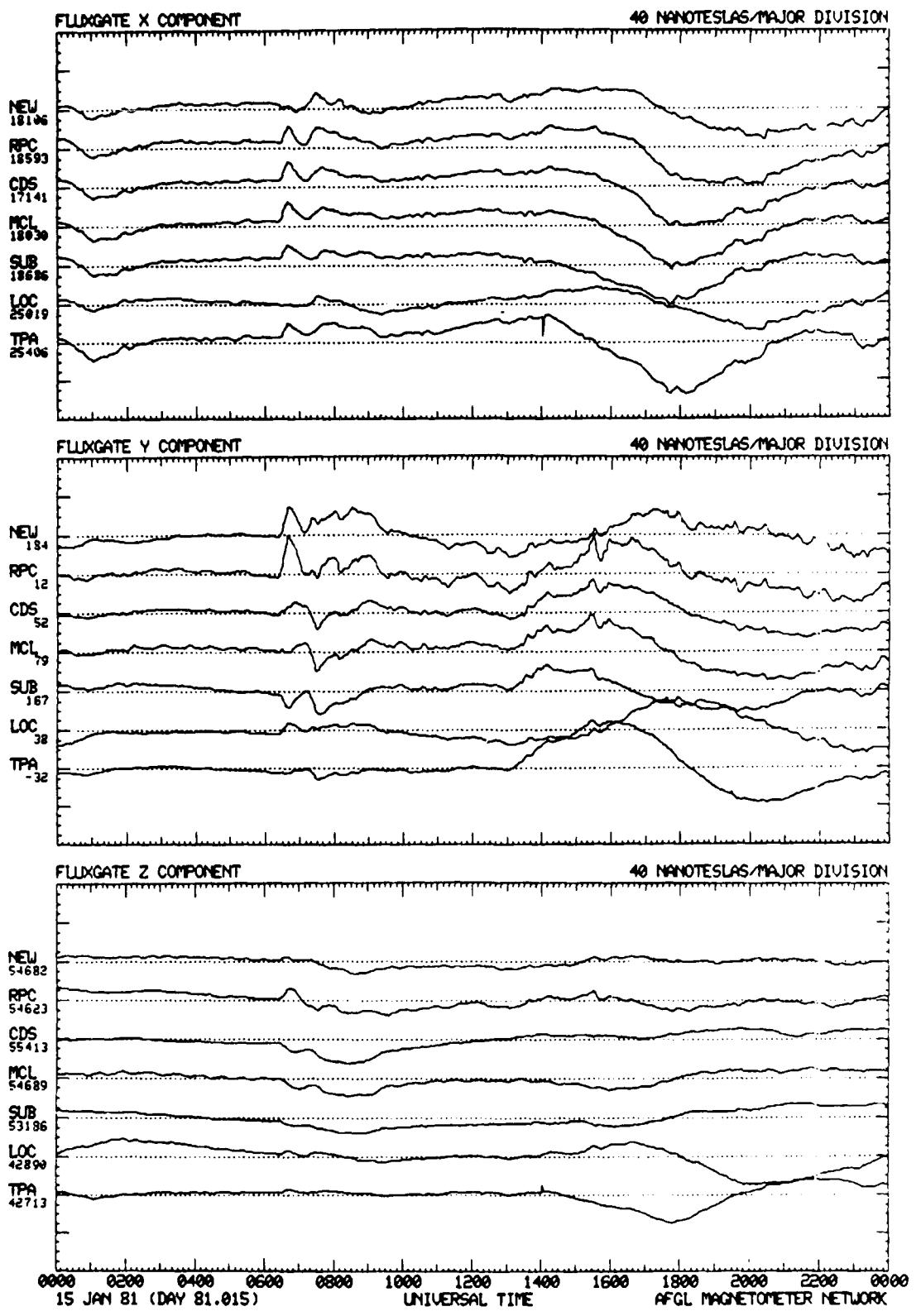


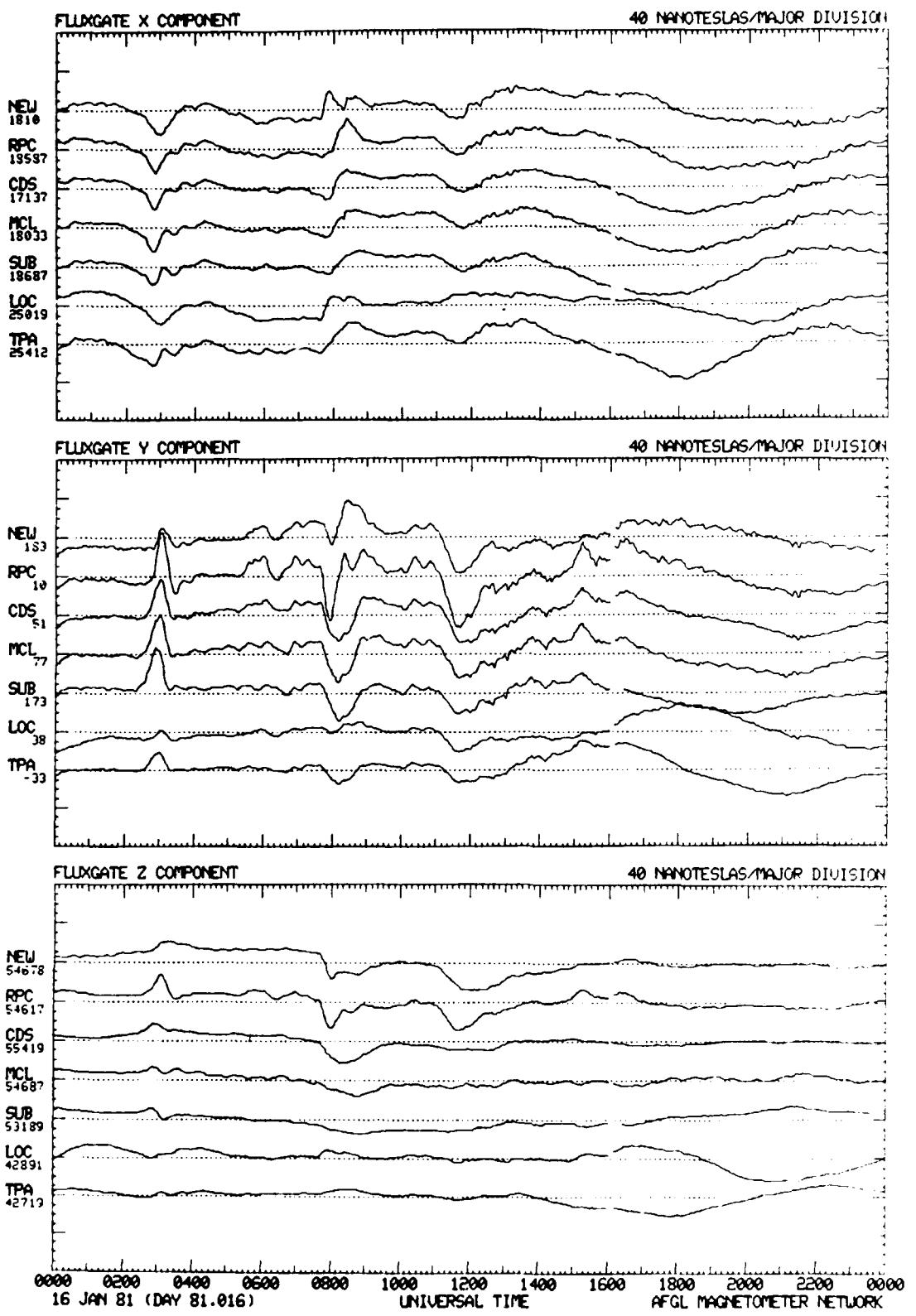


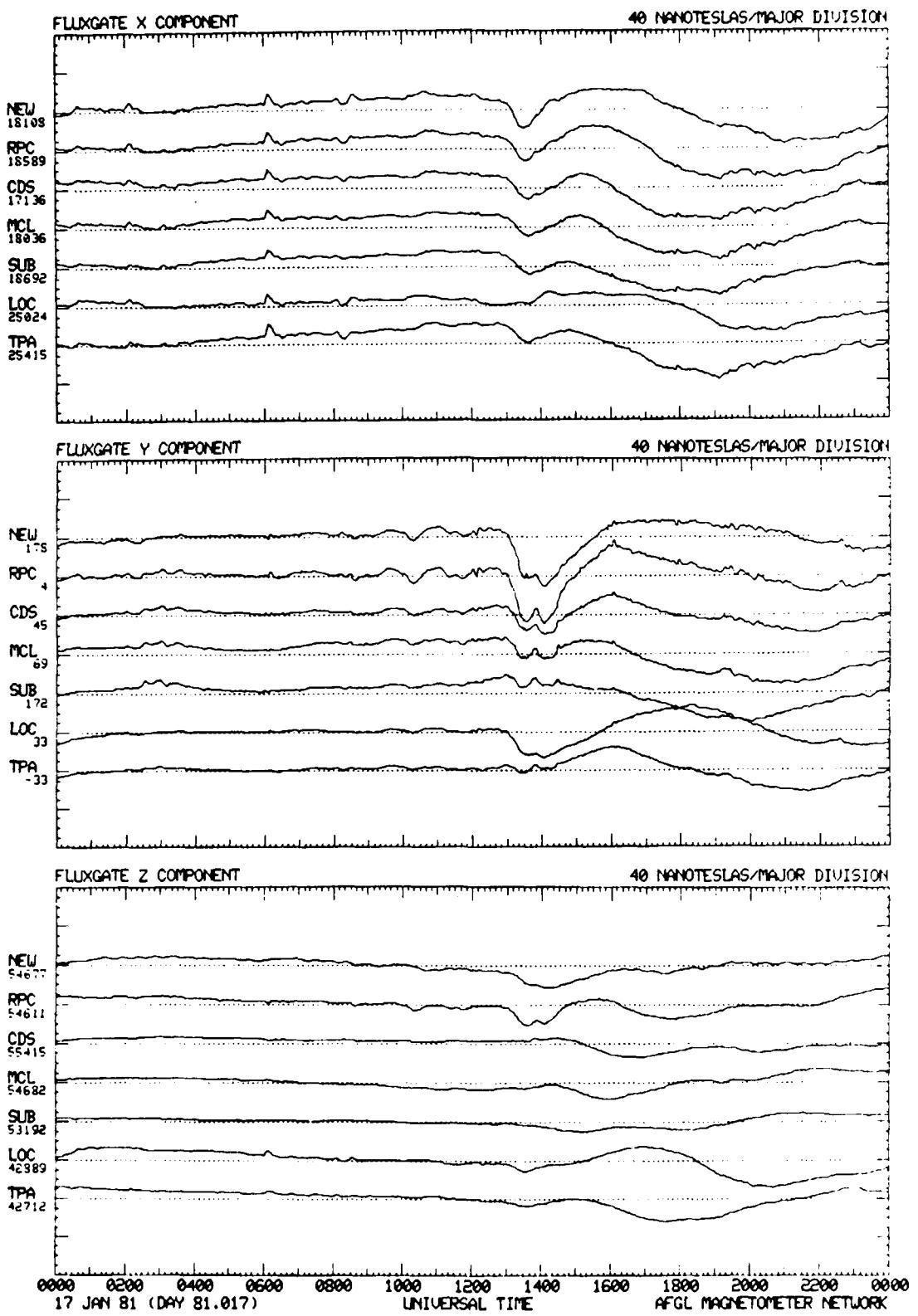


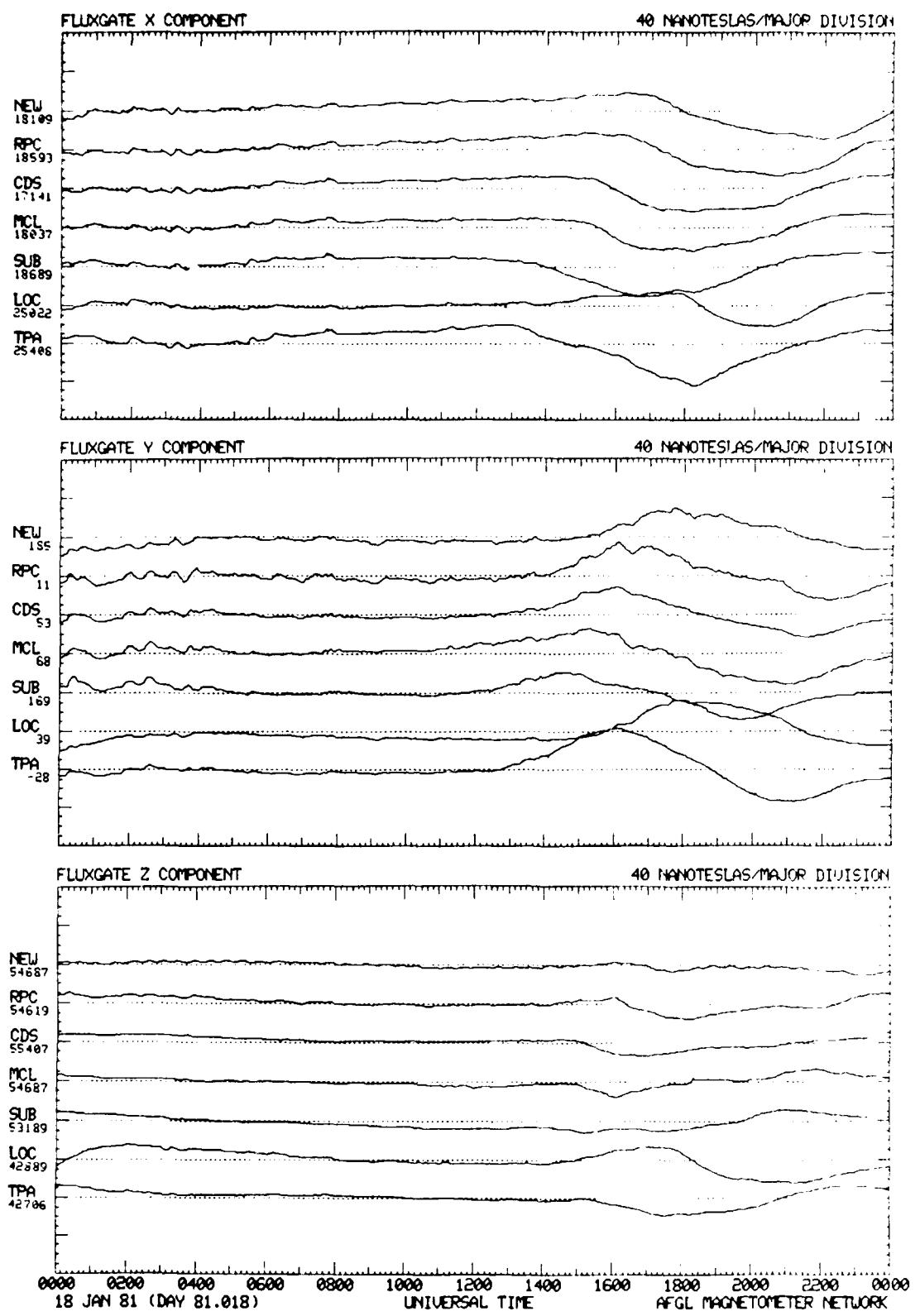


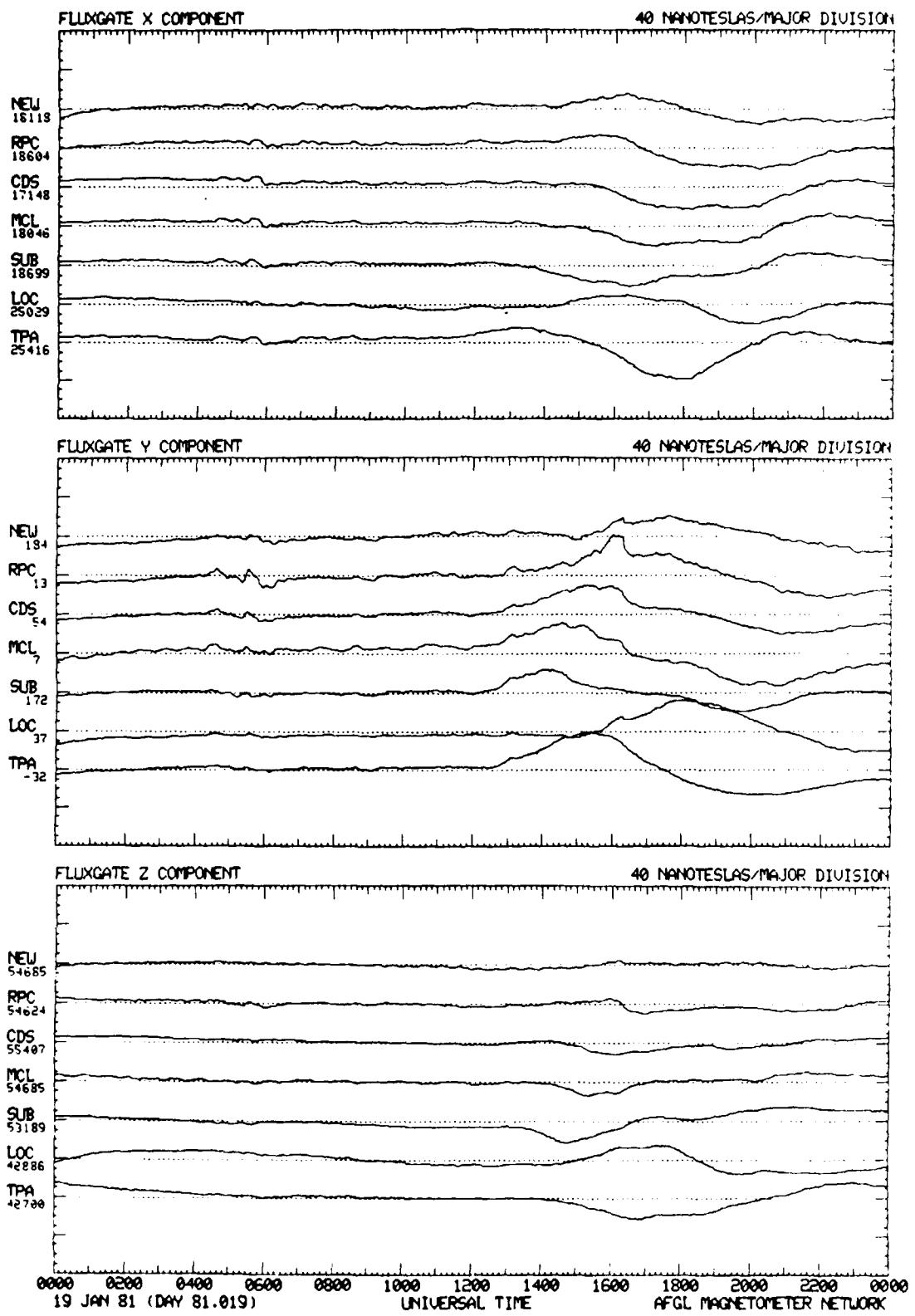


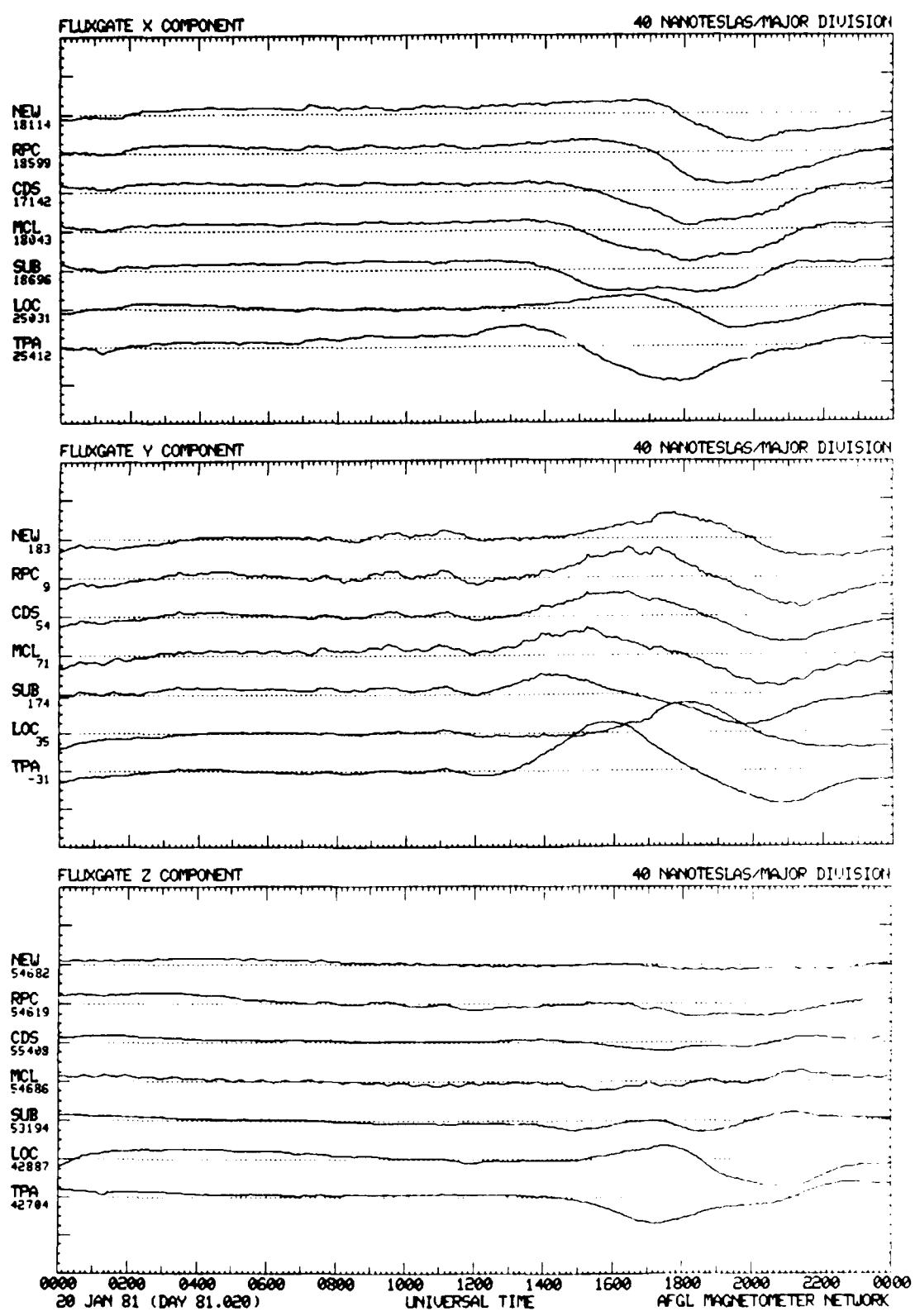


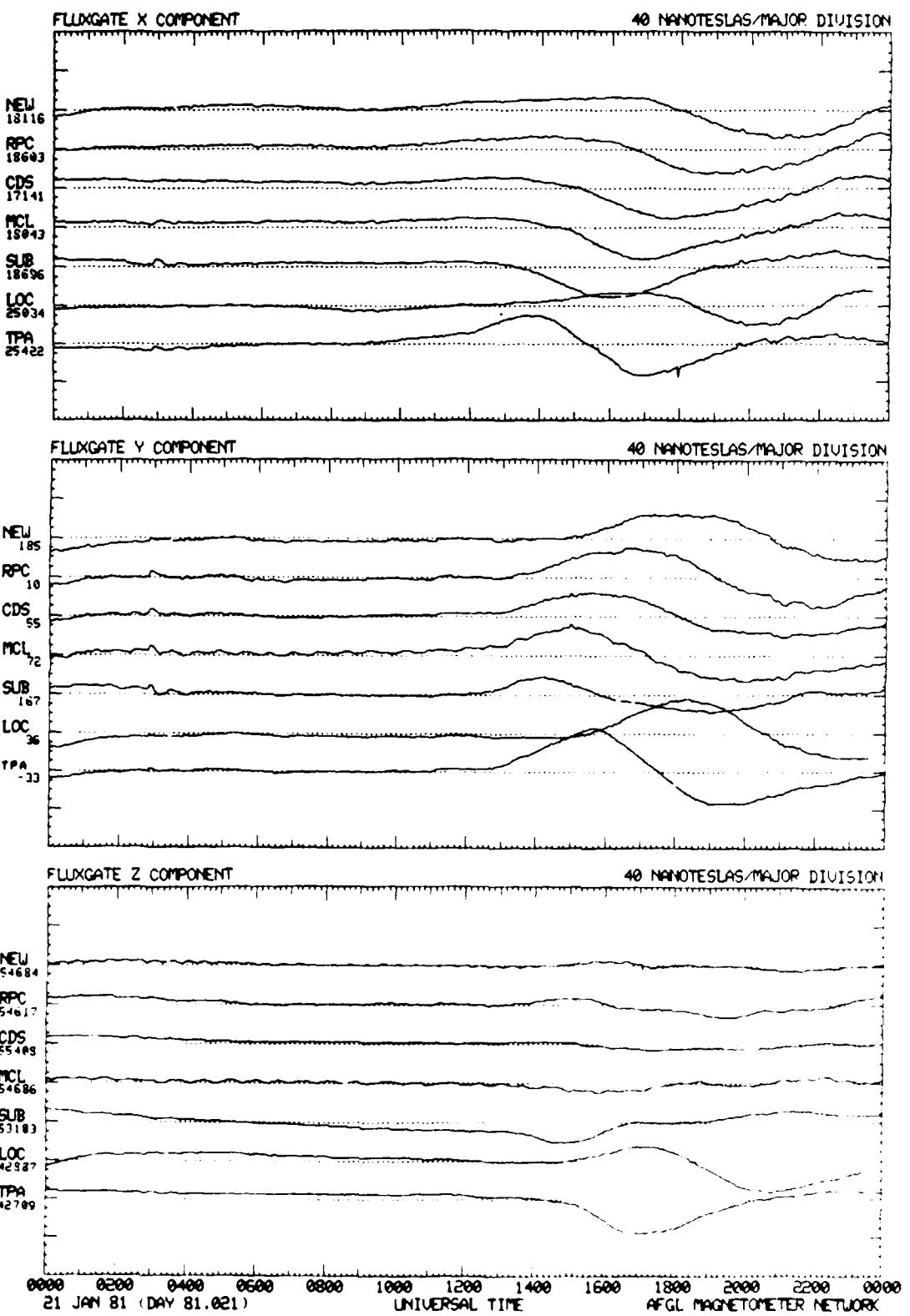


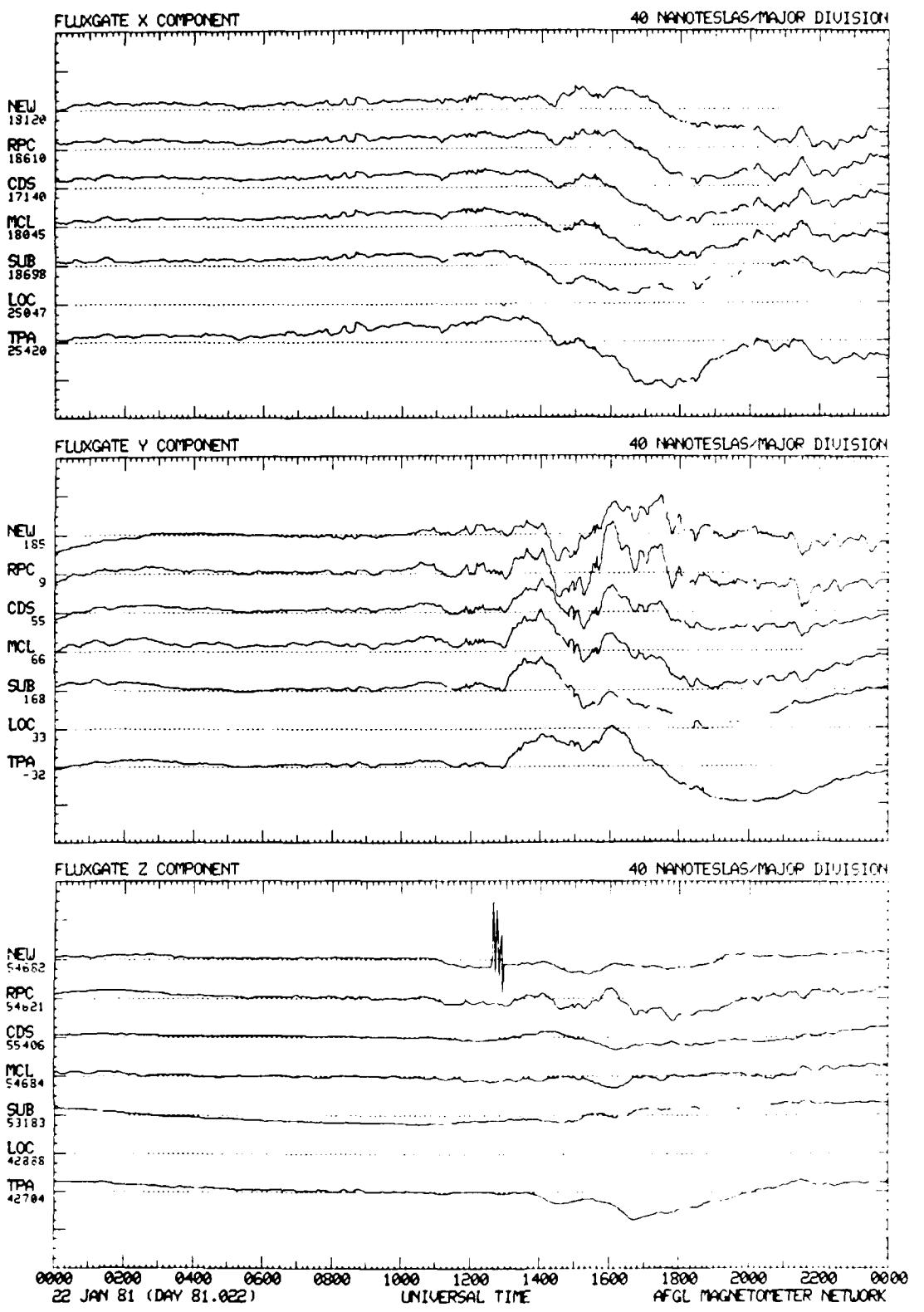


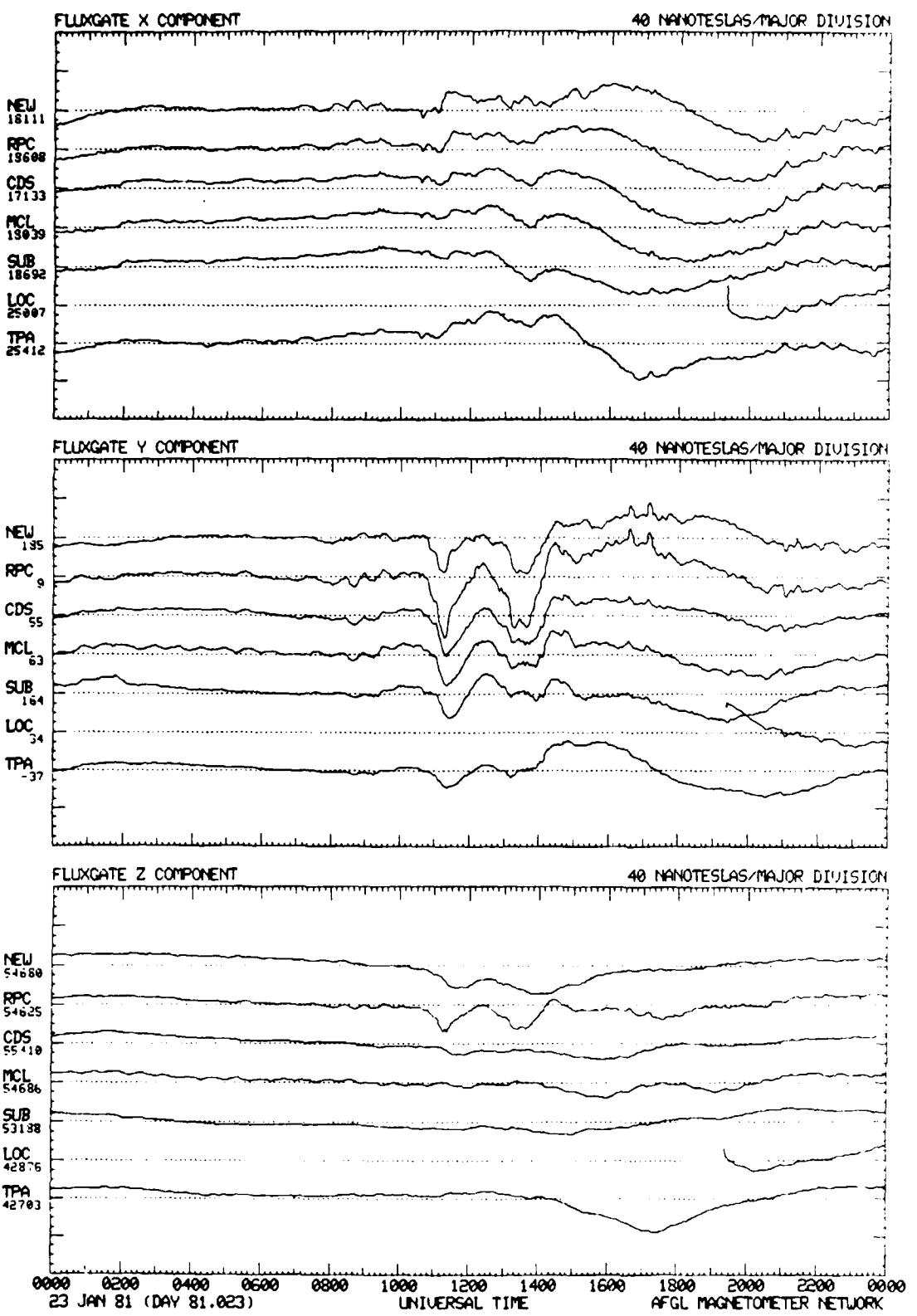












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
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CDS
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MCL
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SUB
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LOC
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TPA
25404

FLUXGATE Y COMPONENT

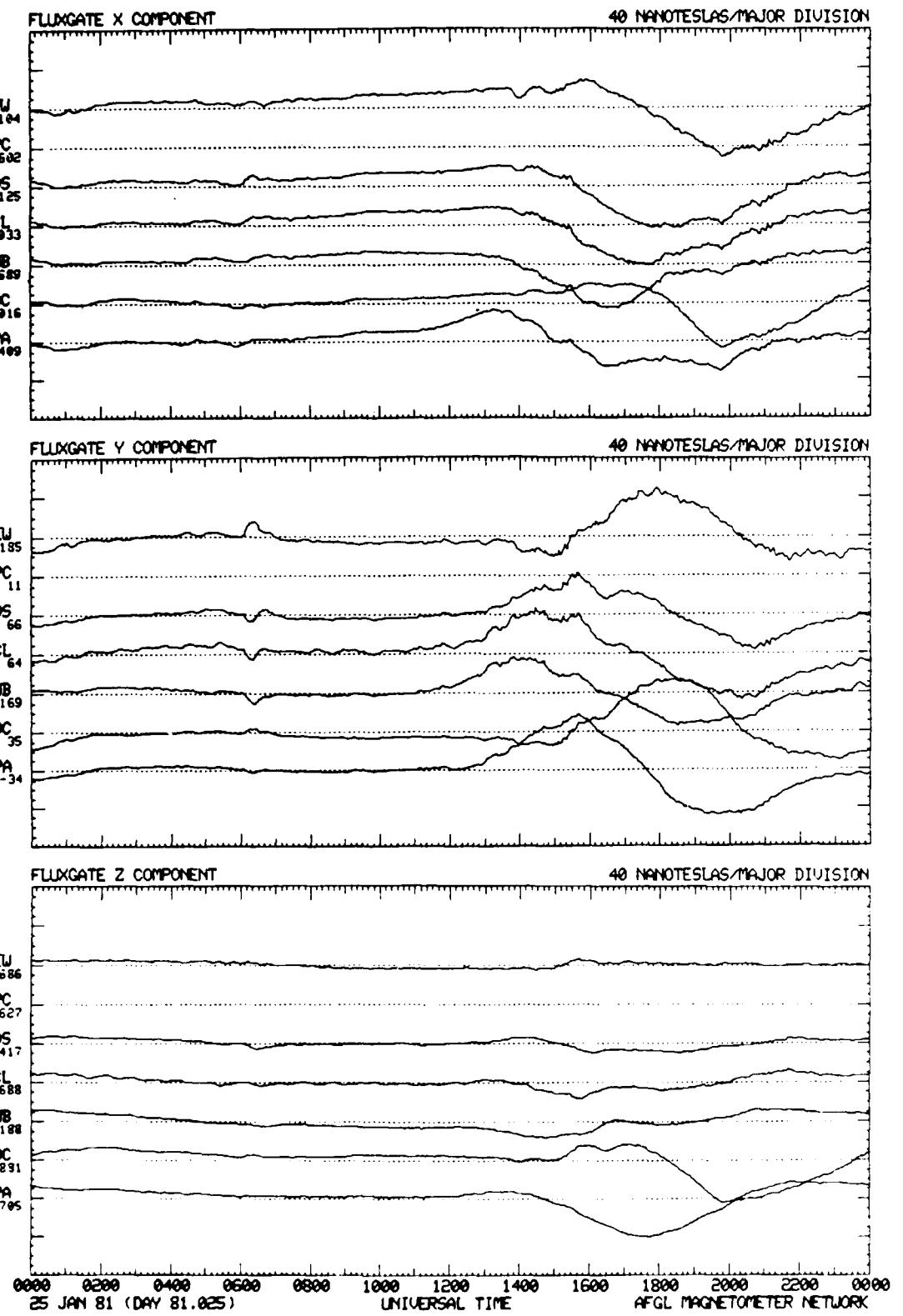
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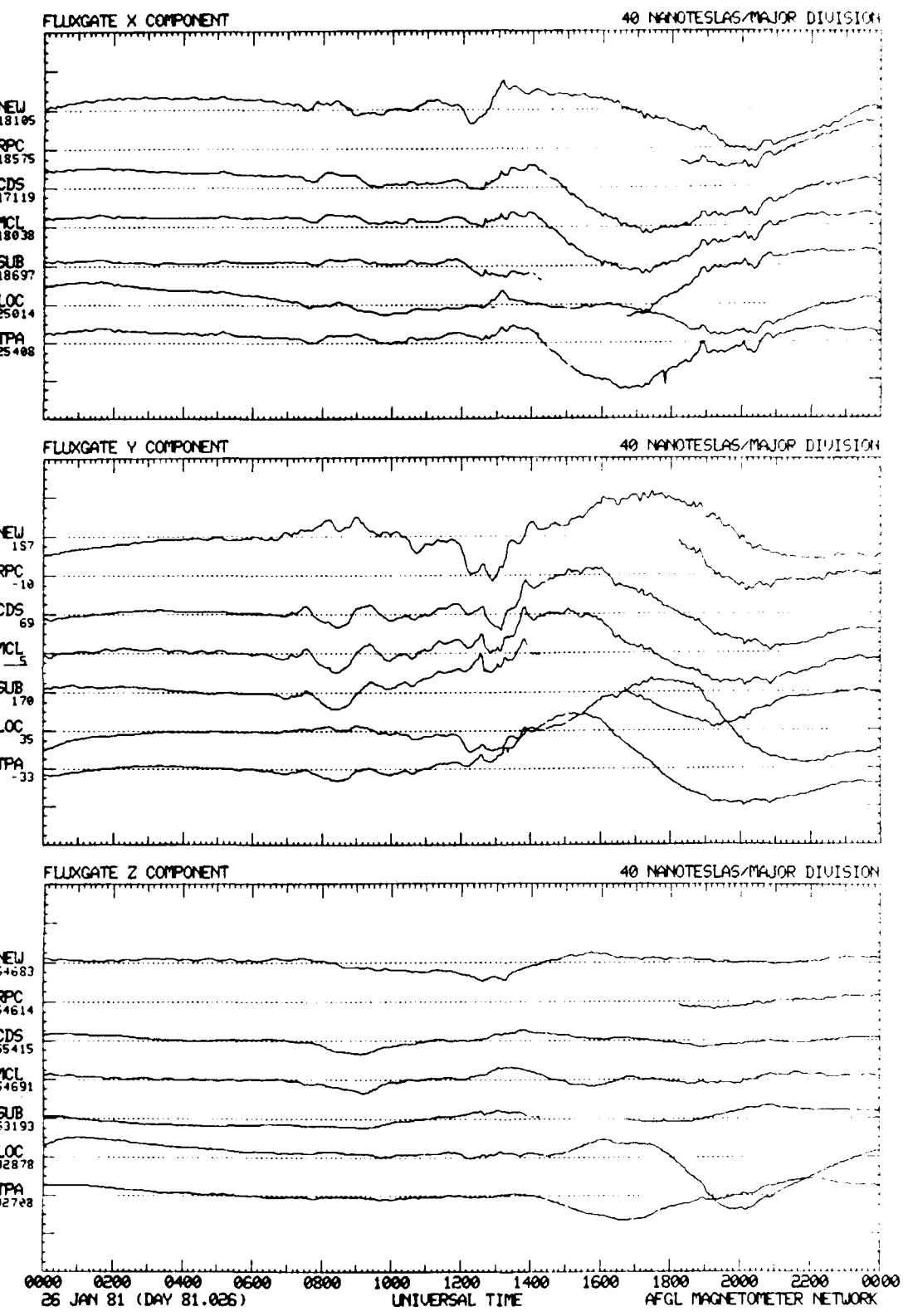
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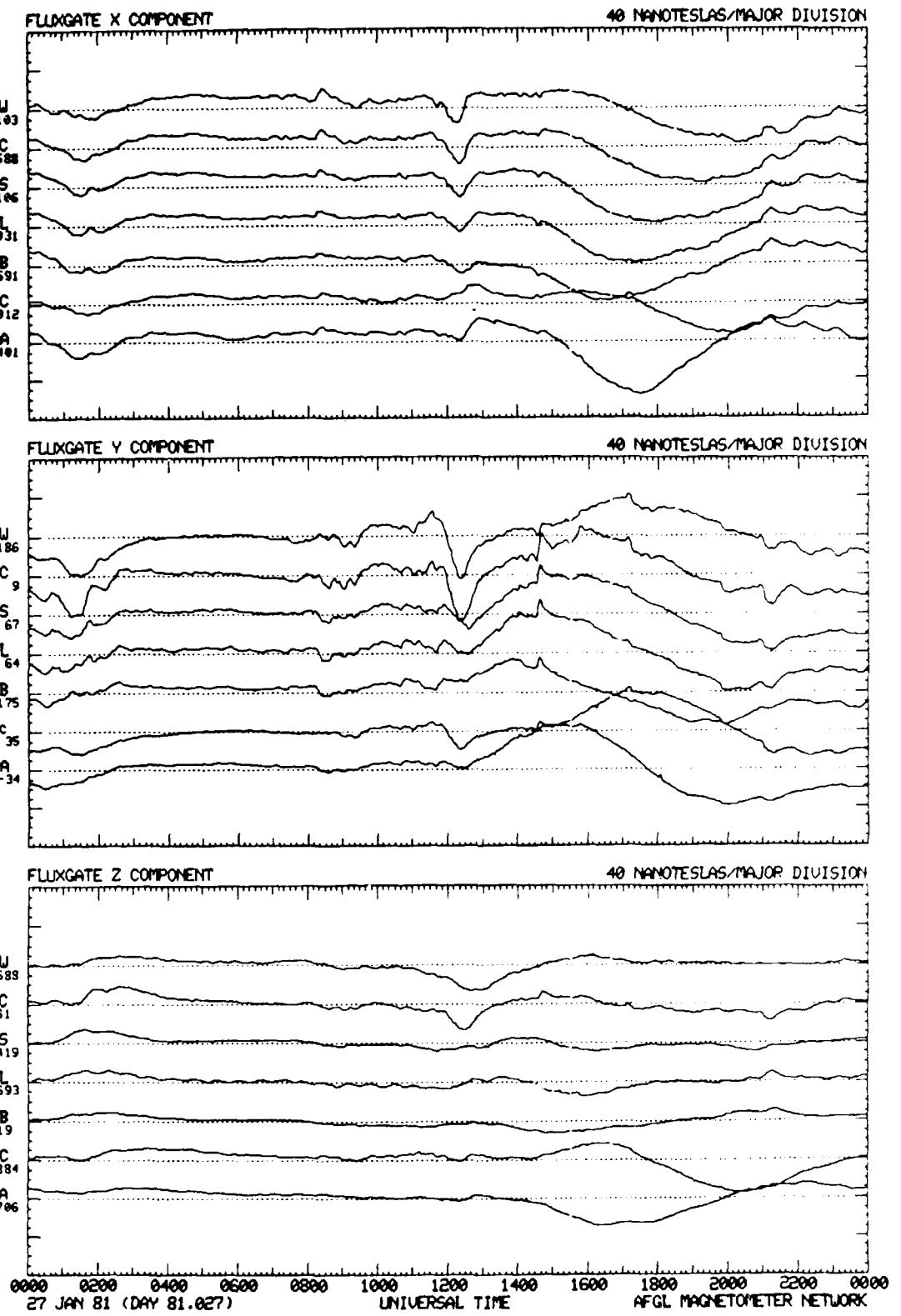
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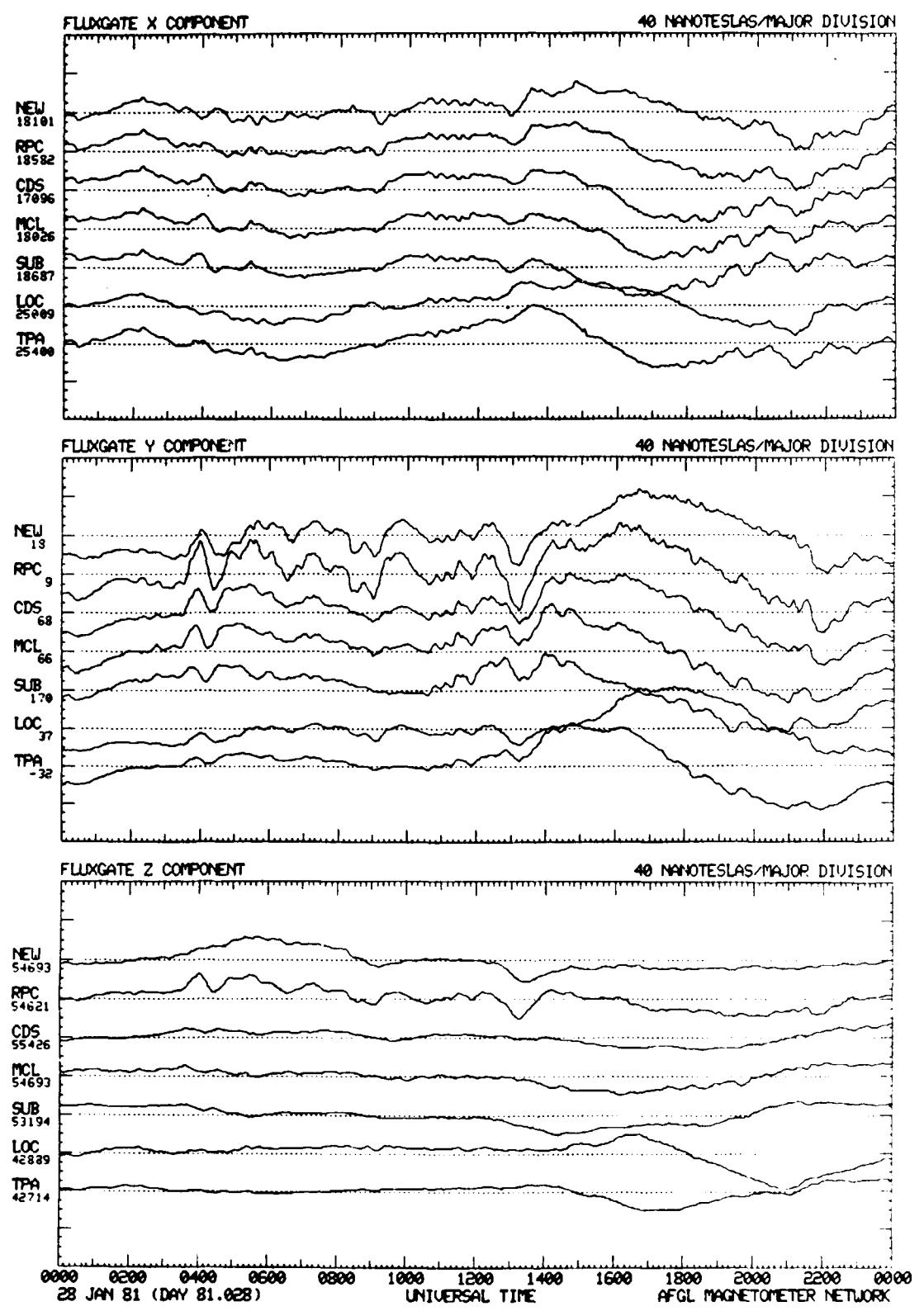
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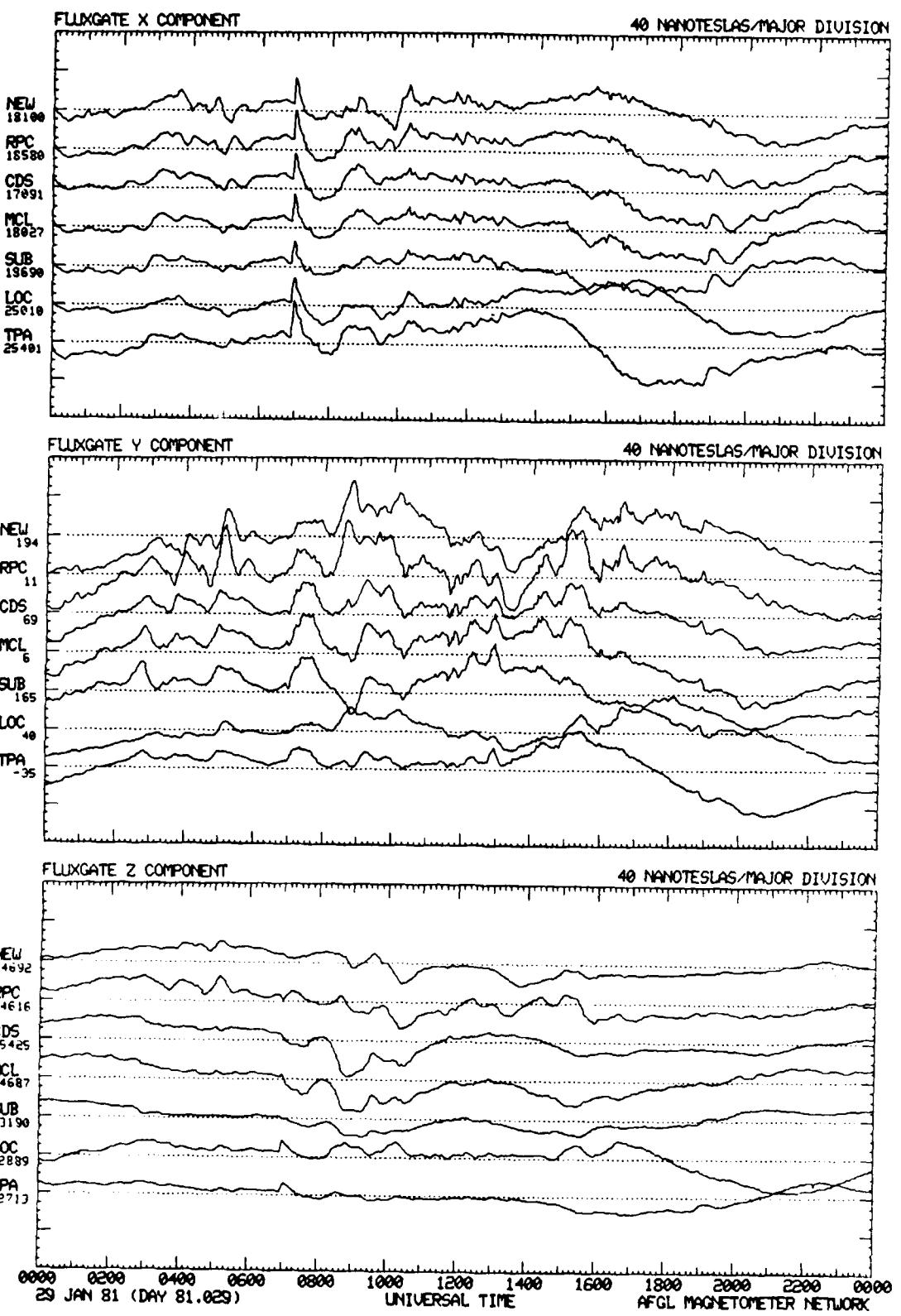
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24 JAN 81 (DAY 81.024) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

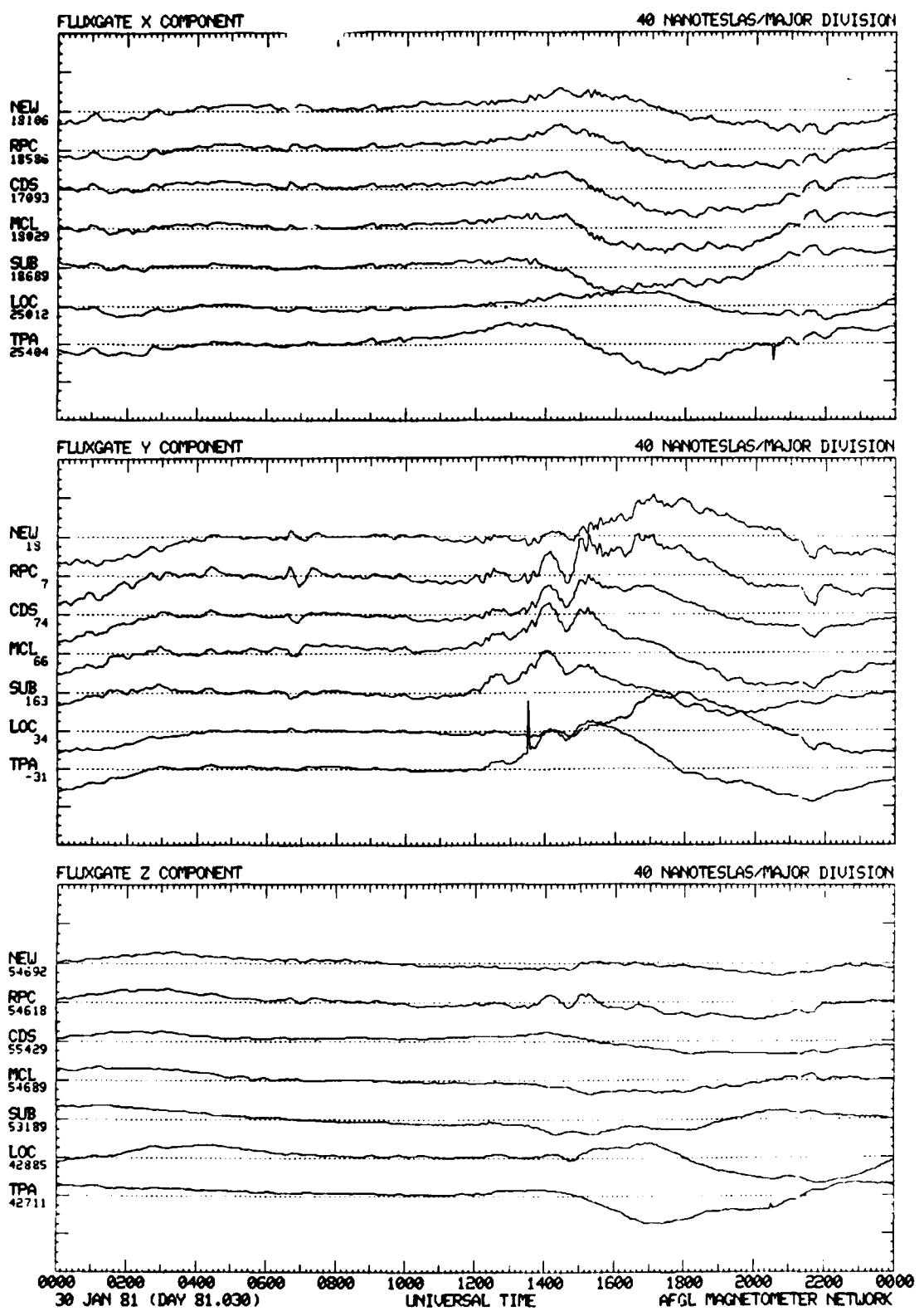


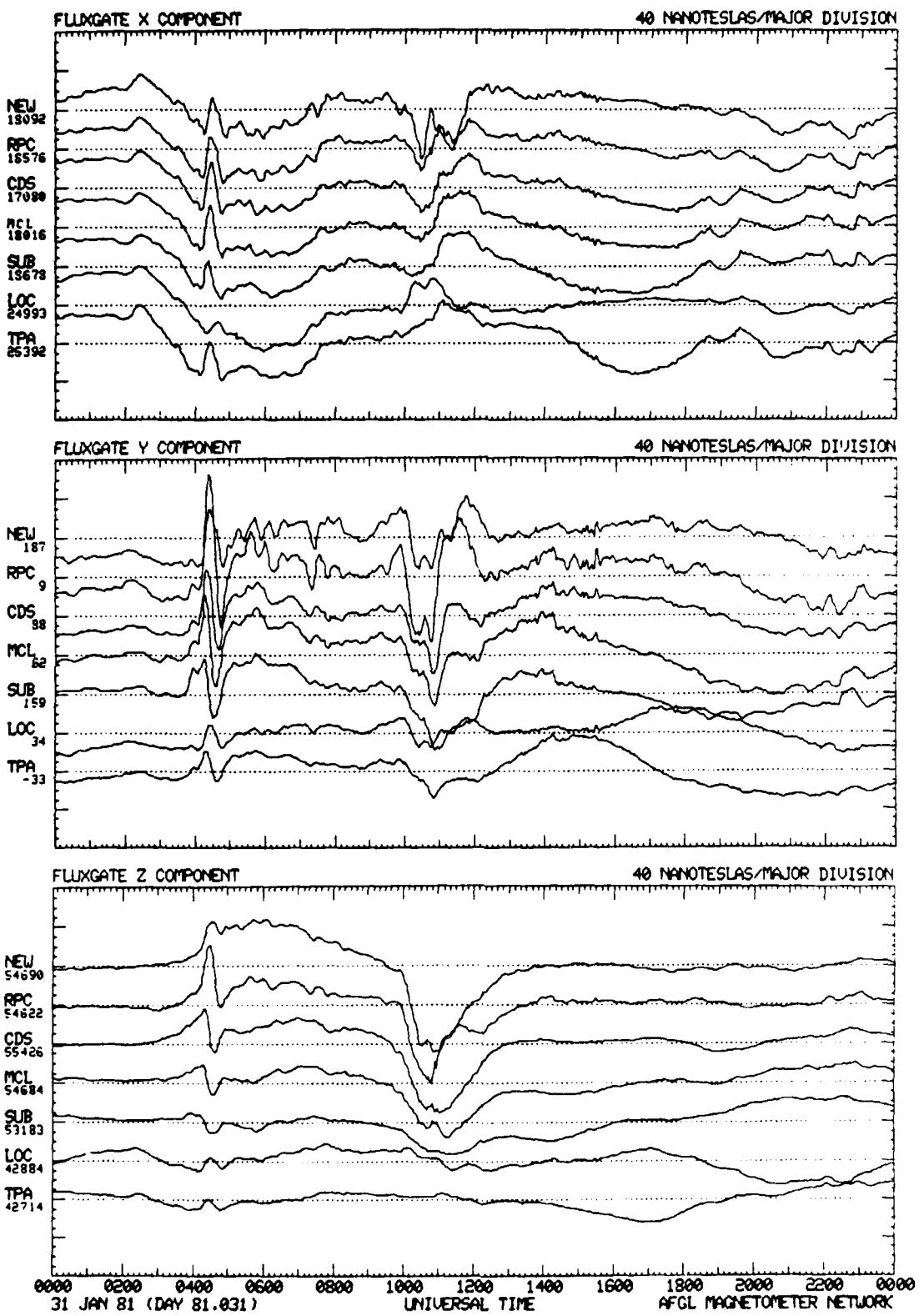


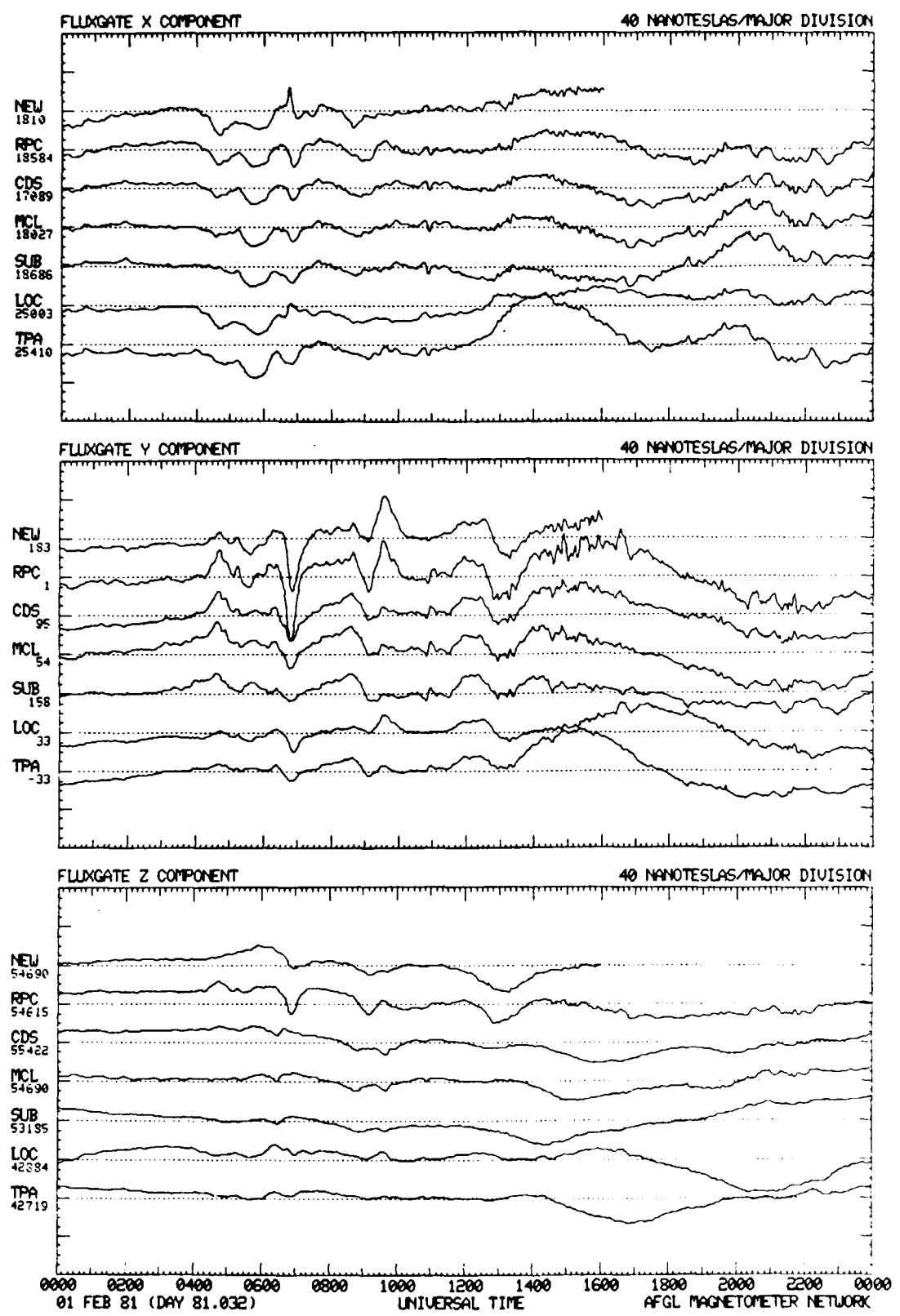


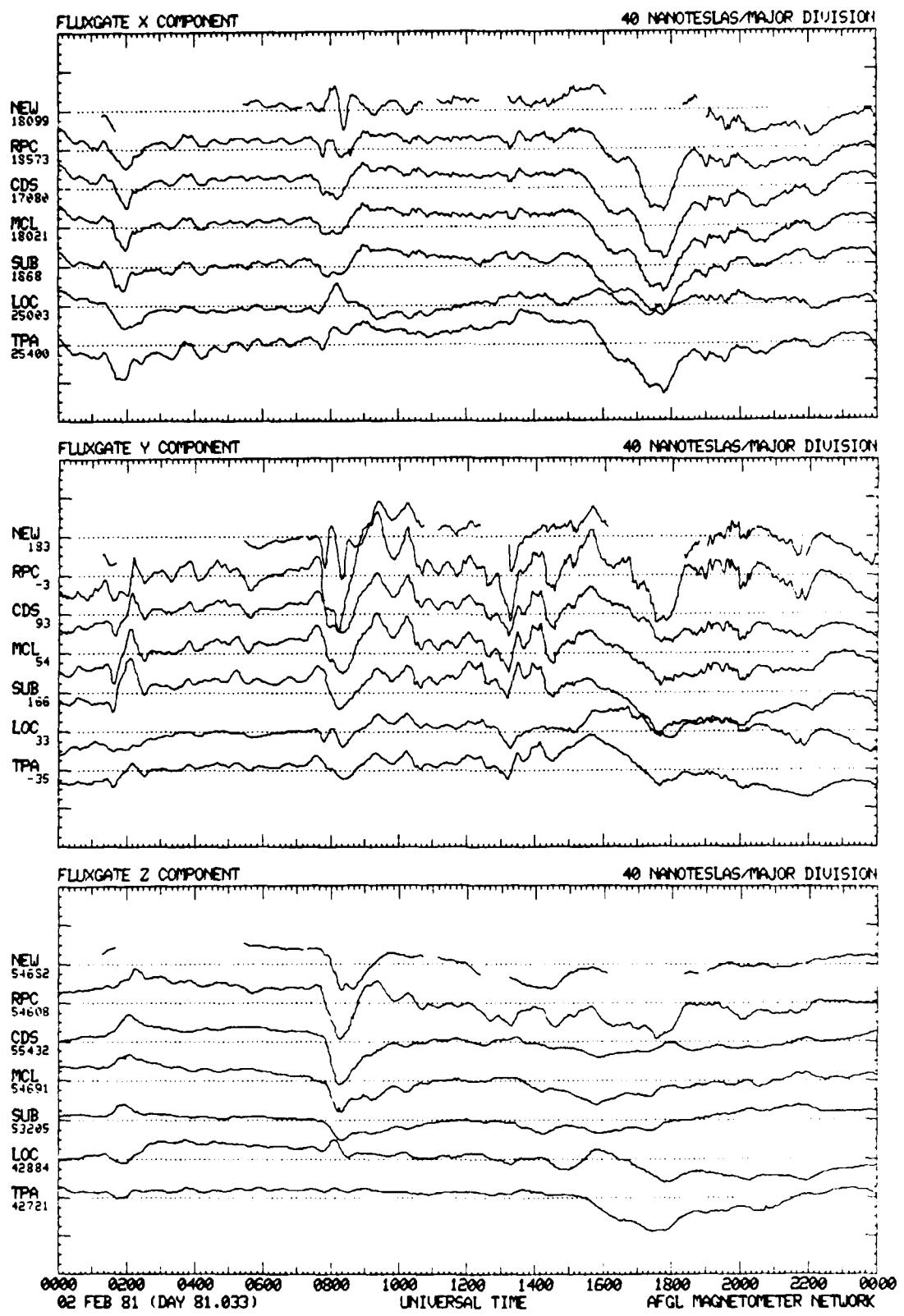


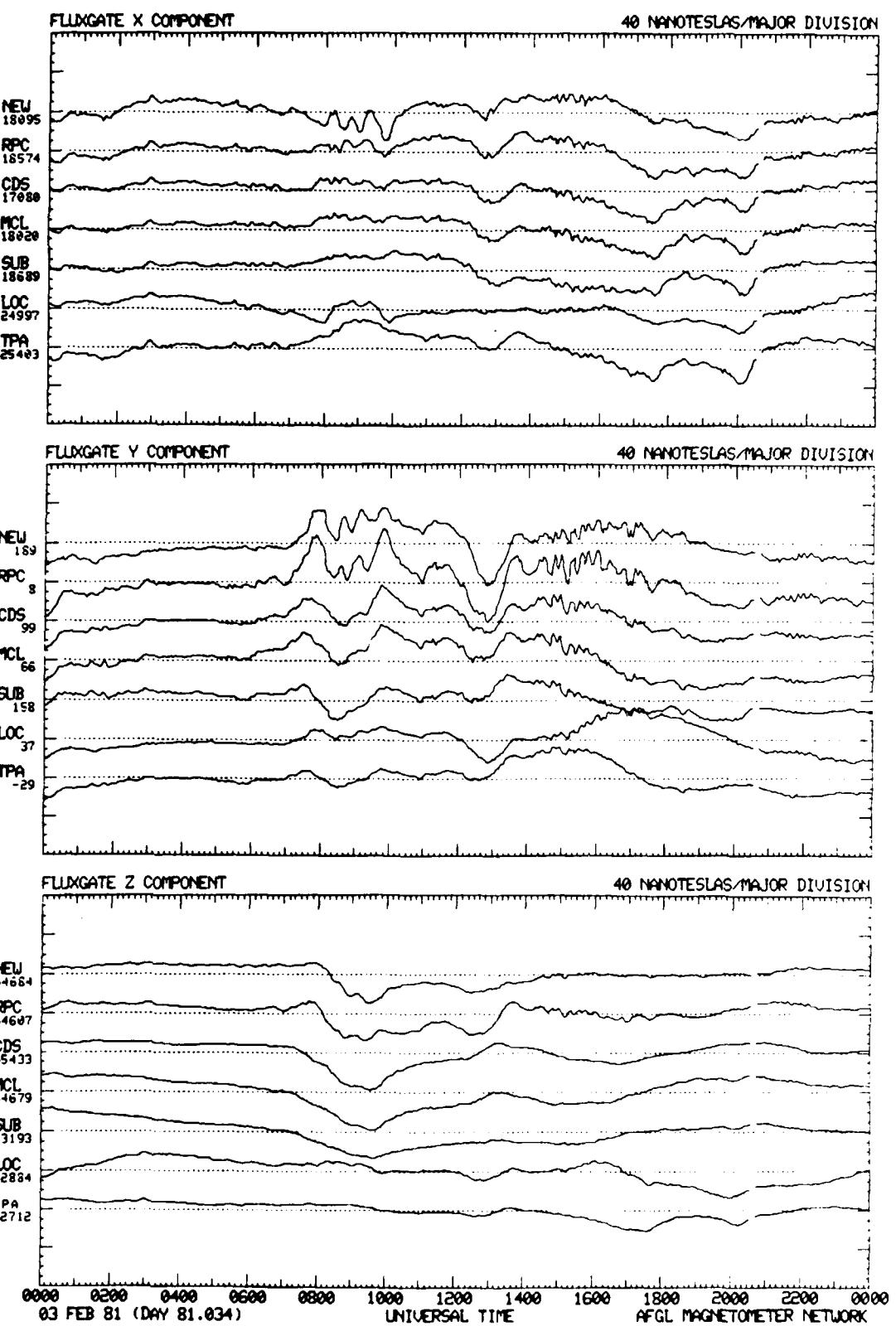






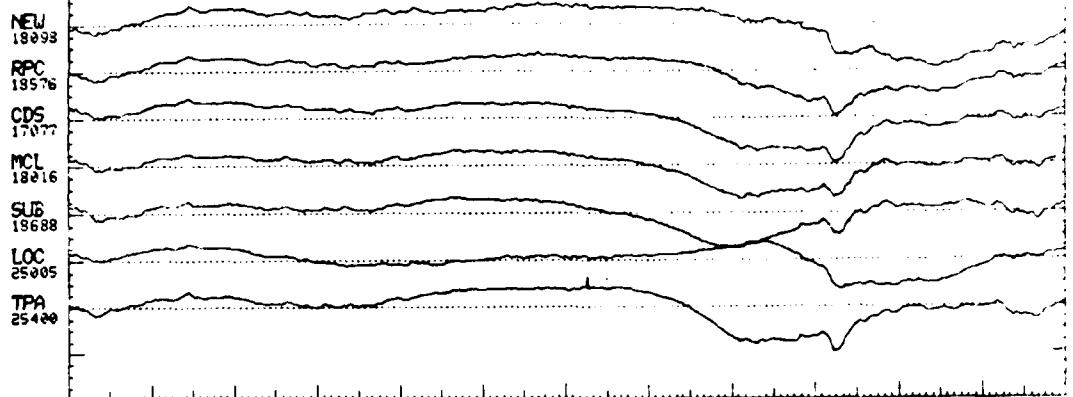






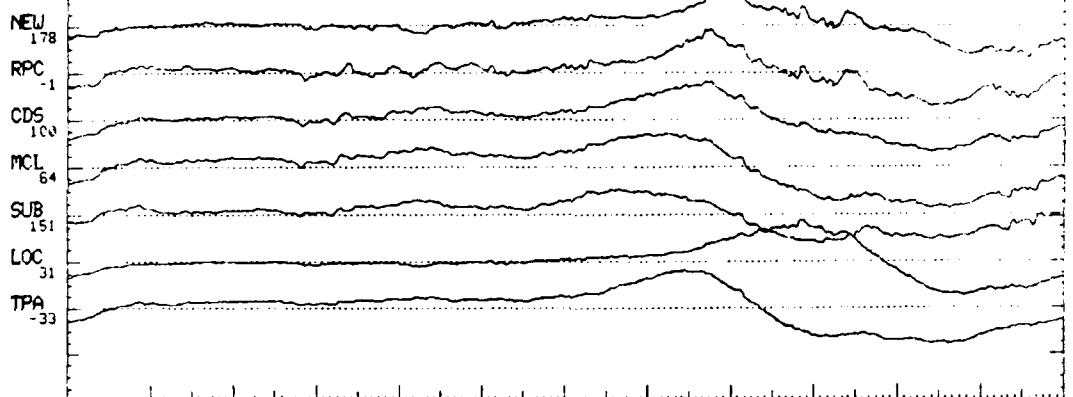
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



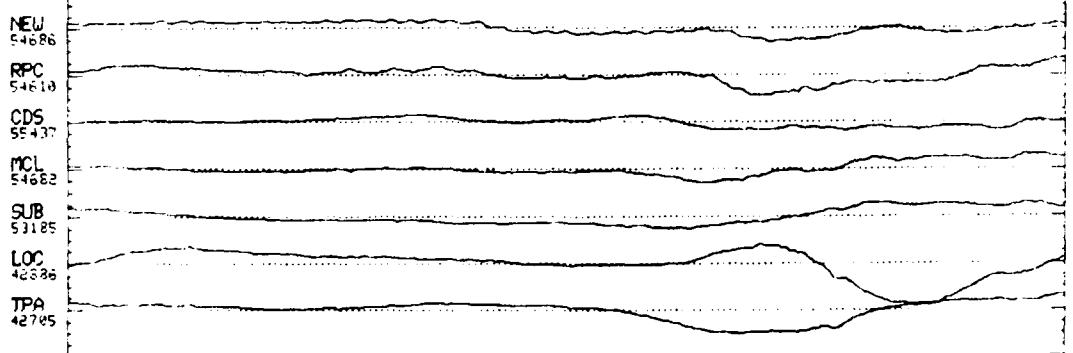
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

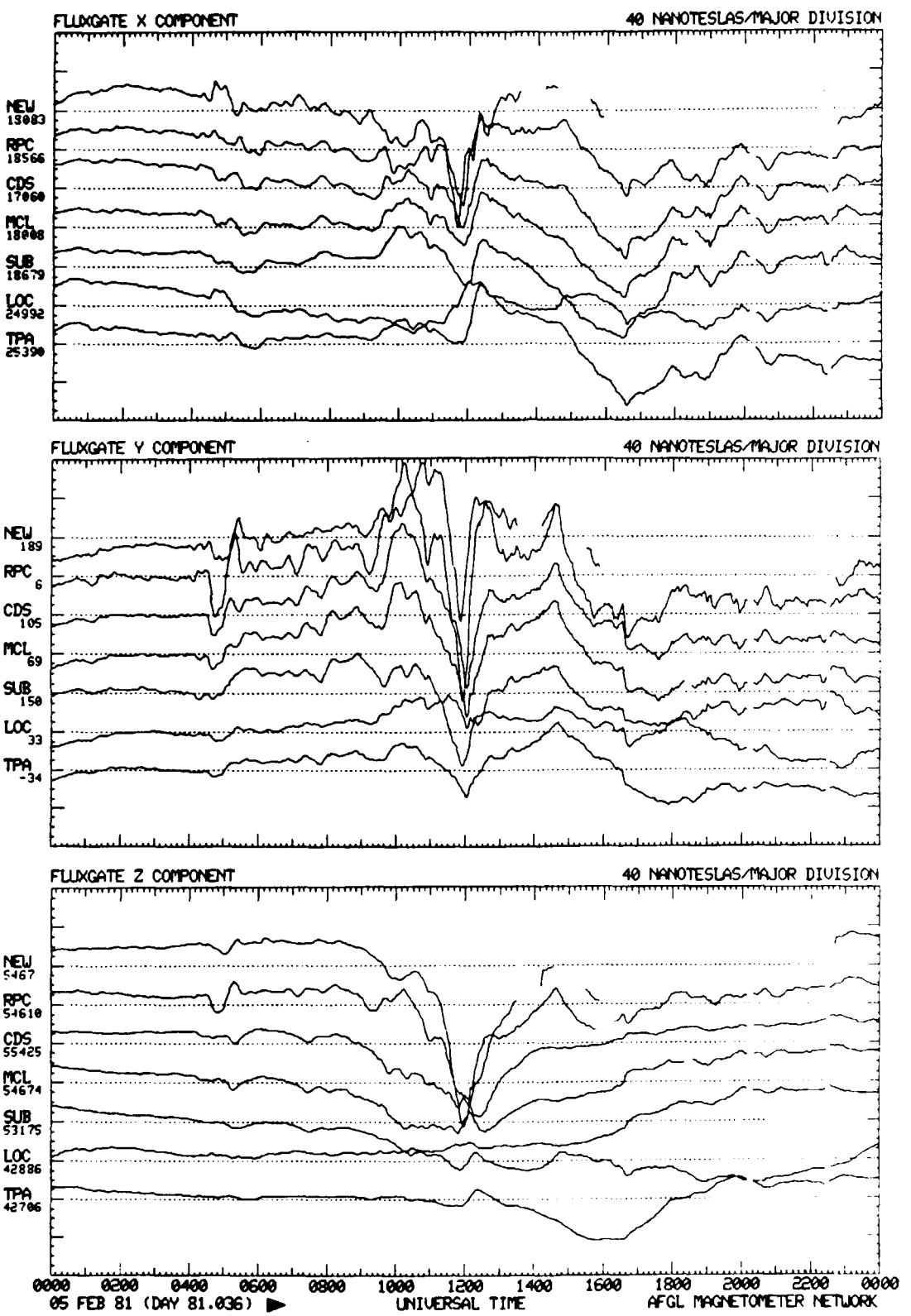


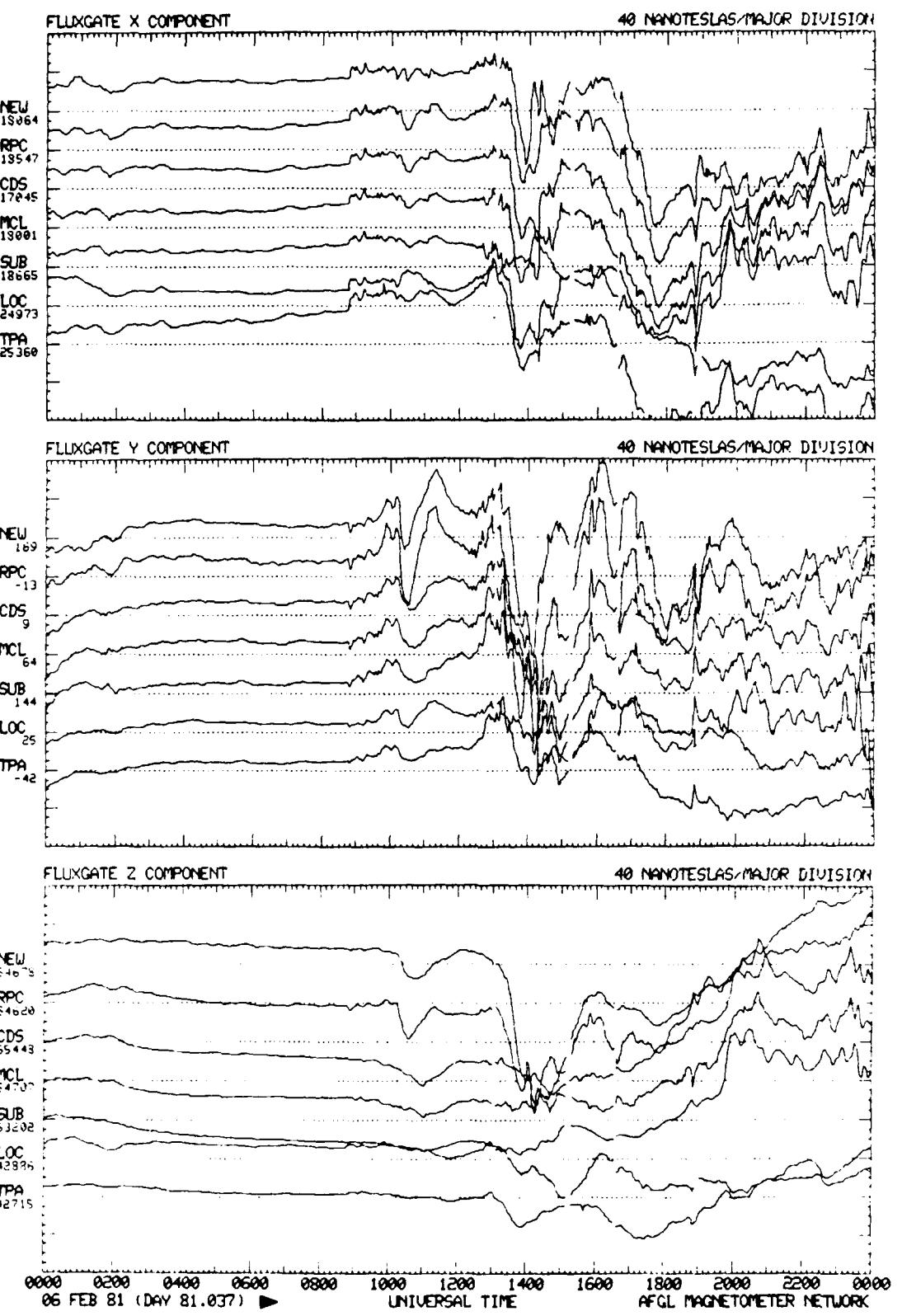
FLUXGATE Z COMPONENT

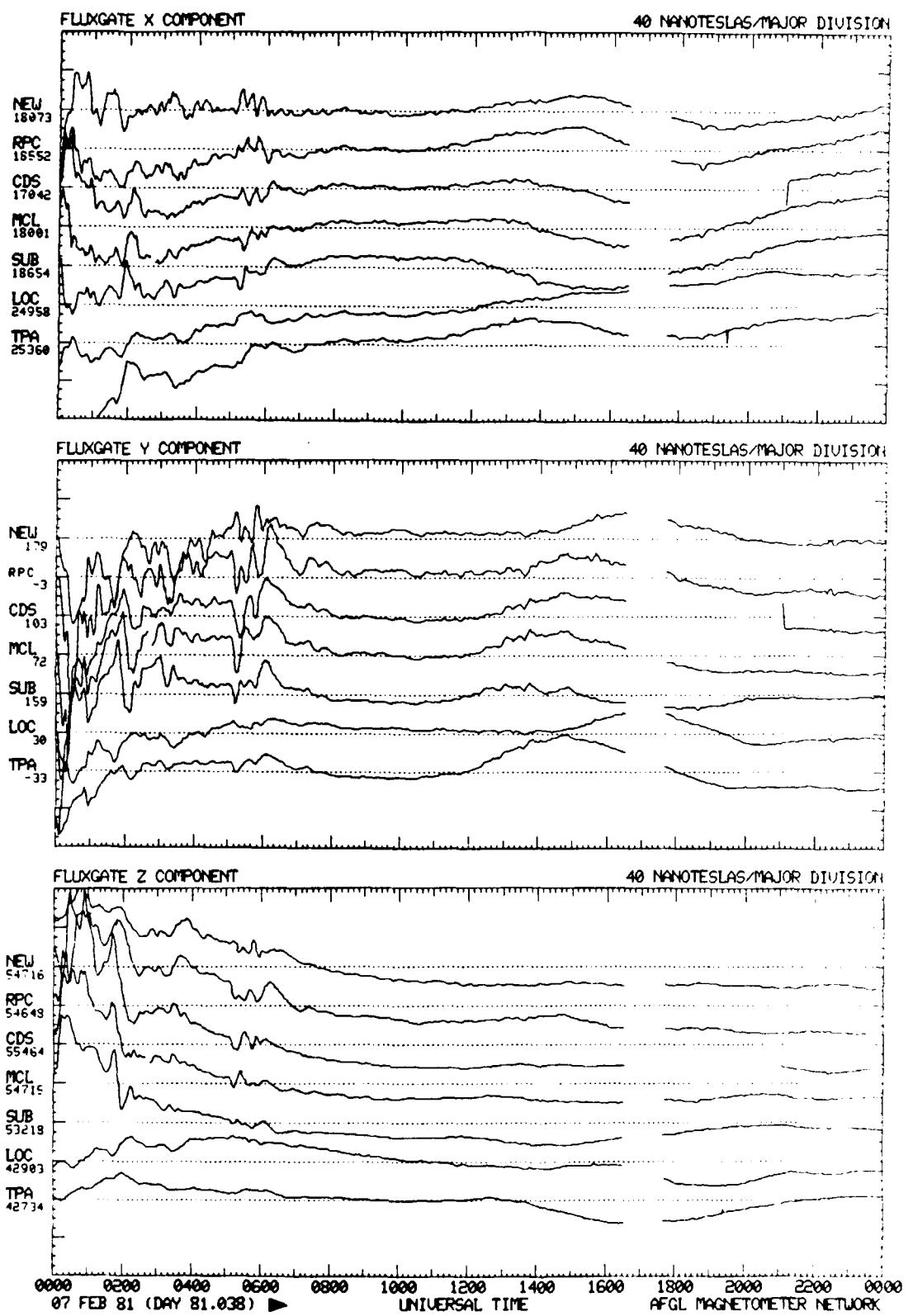
40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 FEB 81 (DAY 81.035) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
16690
RPC
18566
CDS
17859
MCL
18029
SUB
18681
LOC
24989
TPA
25395

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
176
RPC
-10
CDS
96
MCL
70
SUB
159
LOC
33
TPA
-38

FLUXGATE Z COMPONENT

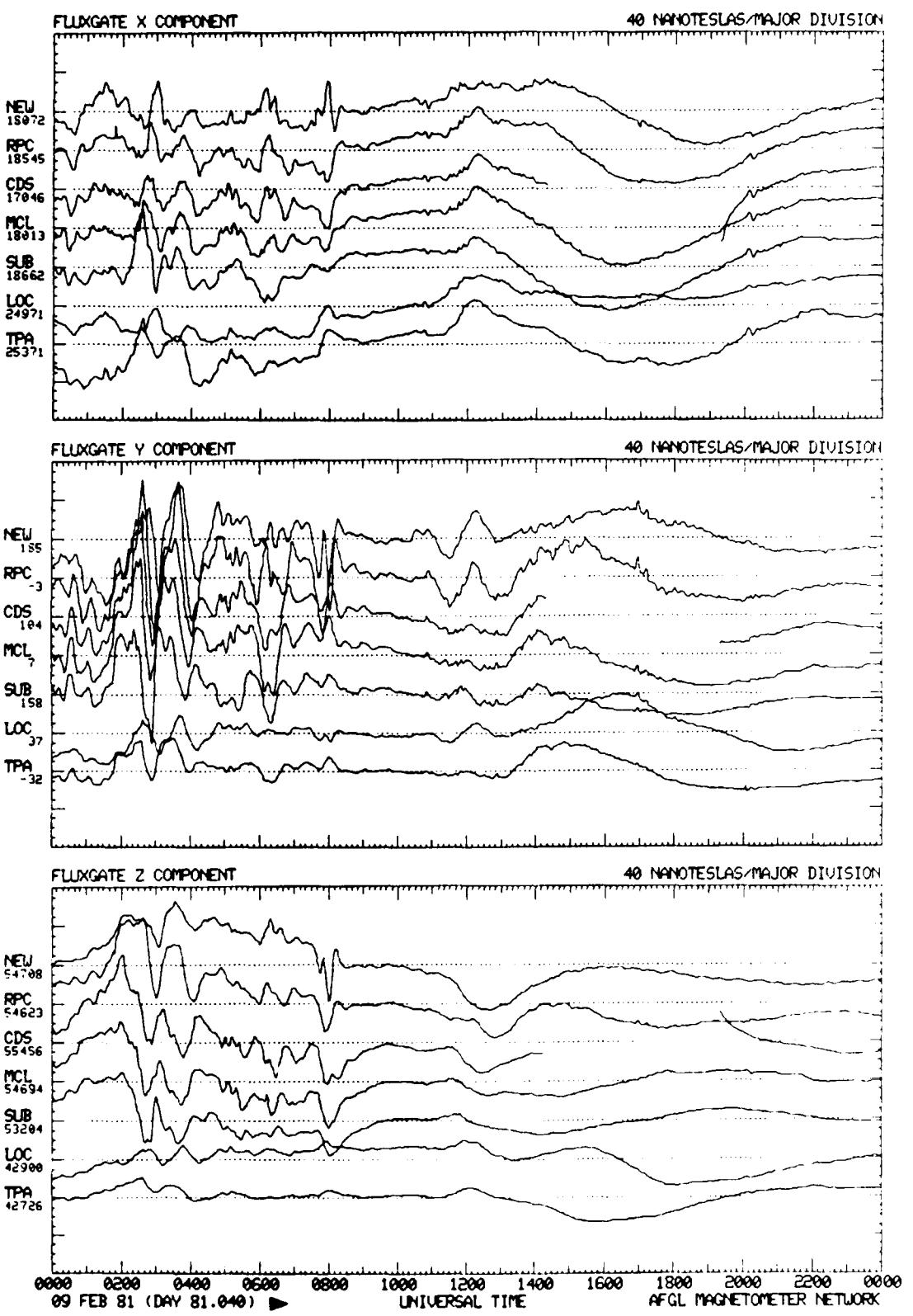
40 NANOTESLAS/MAJOR DIVISION

NEW
54694
RPC
54615
CDS
55443
MCL
54692
SUB
53288
LOC
42591
TPA
42722

08 FEB 81 (DAY 81.039)

UNIVERSAL TIME

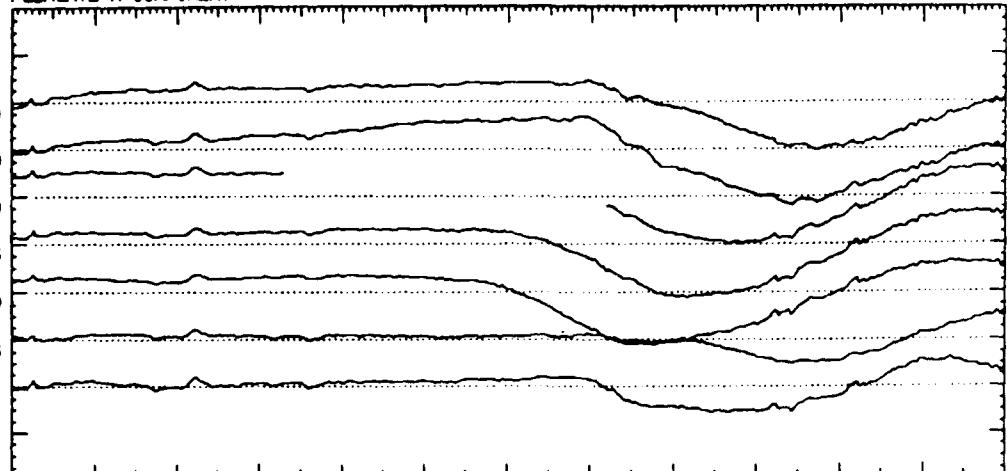
AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

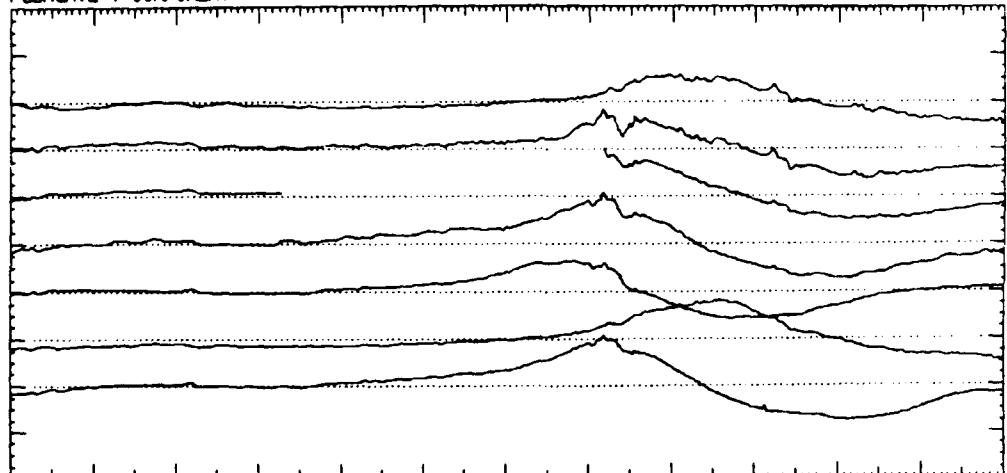
NEW
18089
RPC
18569
CDS
17049
MCL
18035
SUB
18679
LOC
24996
TPA
25401



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

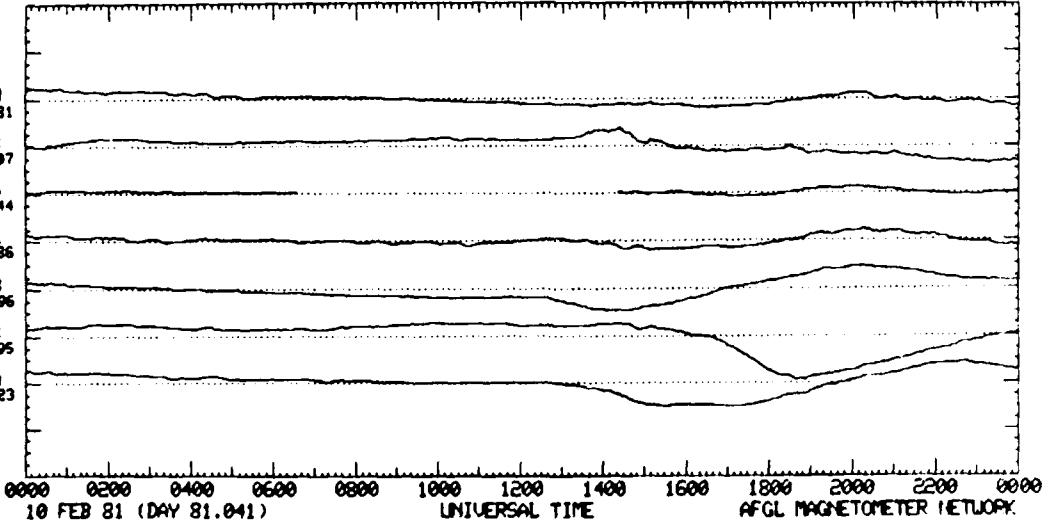
NEW
176
RPC
-16
CDS
93
MCL
75
SUB
154
LOC
37
TPA
-36



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

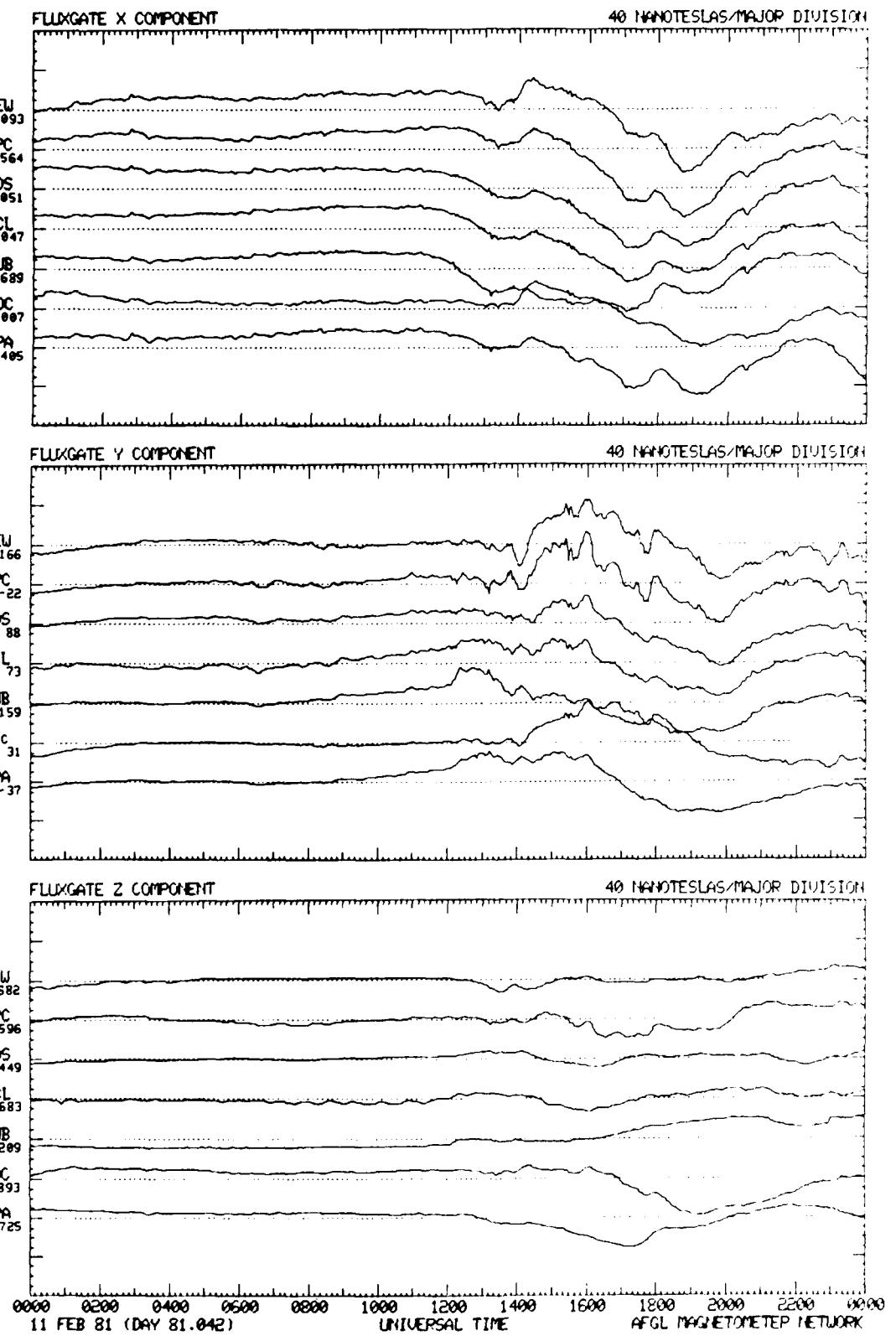
NEW
54681
RPC
54687
CDS
55444
MCL
54686
SUB
53196
LOC
42895
TPA
42723

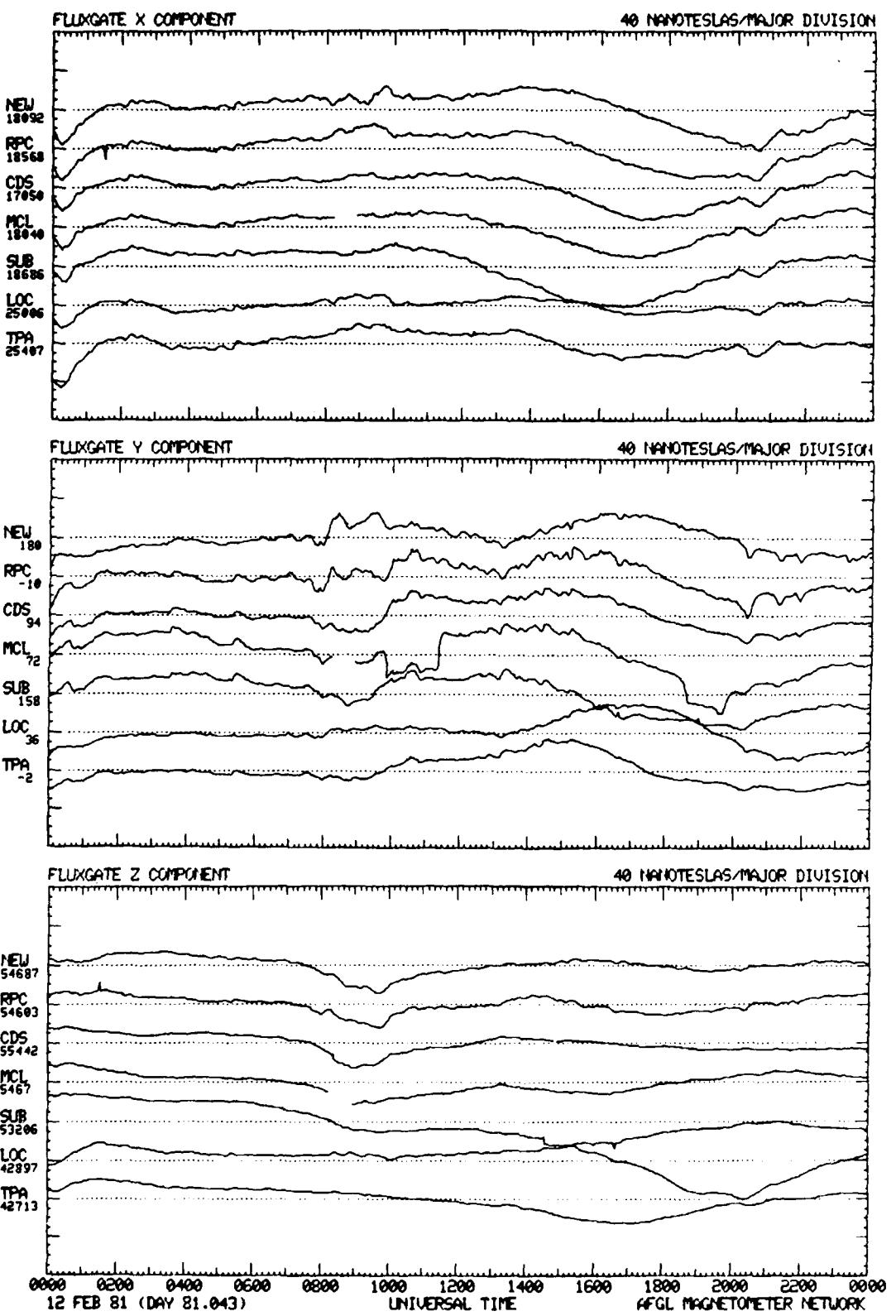


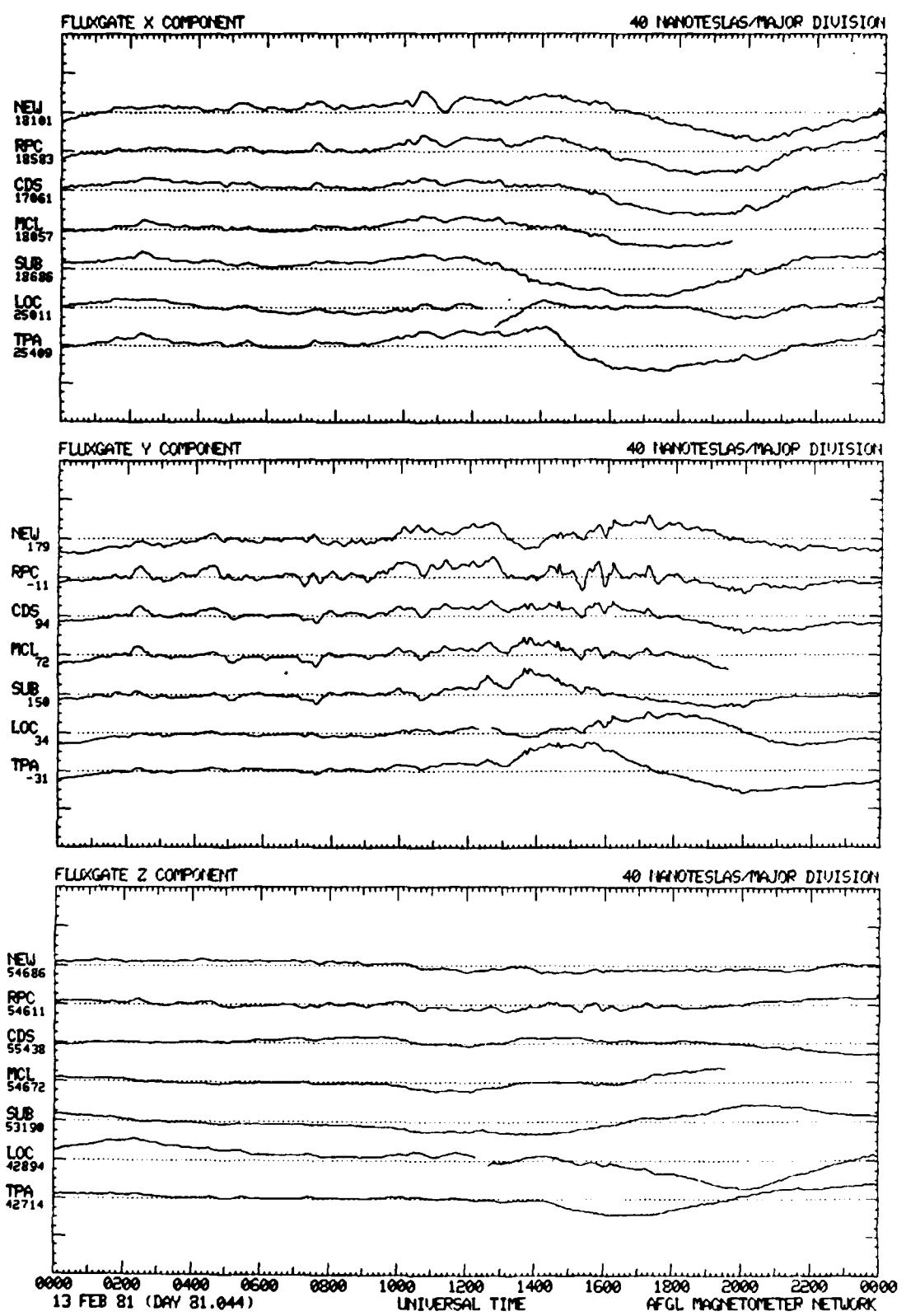
10 FEB 81 (DAY 81.041)

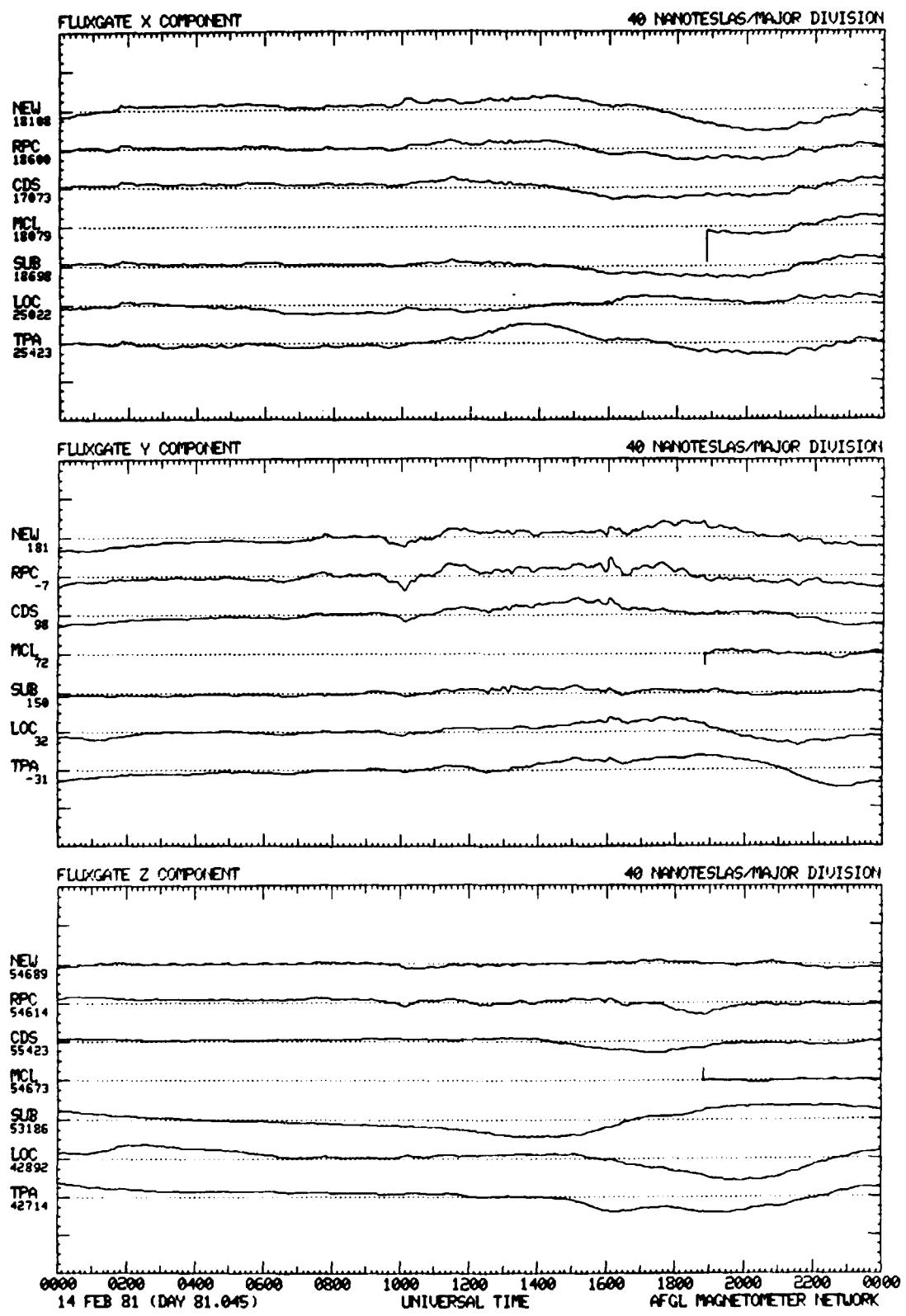
UNIVERSAL TIME

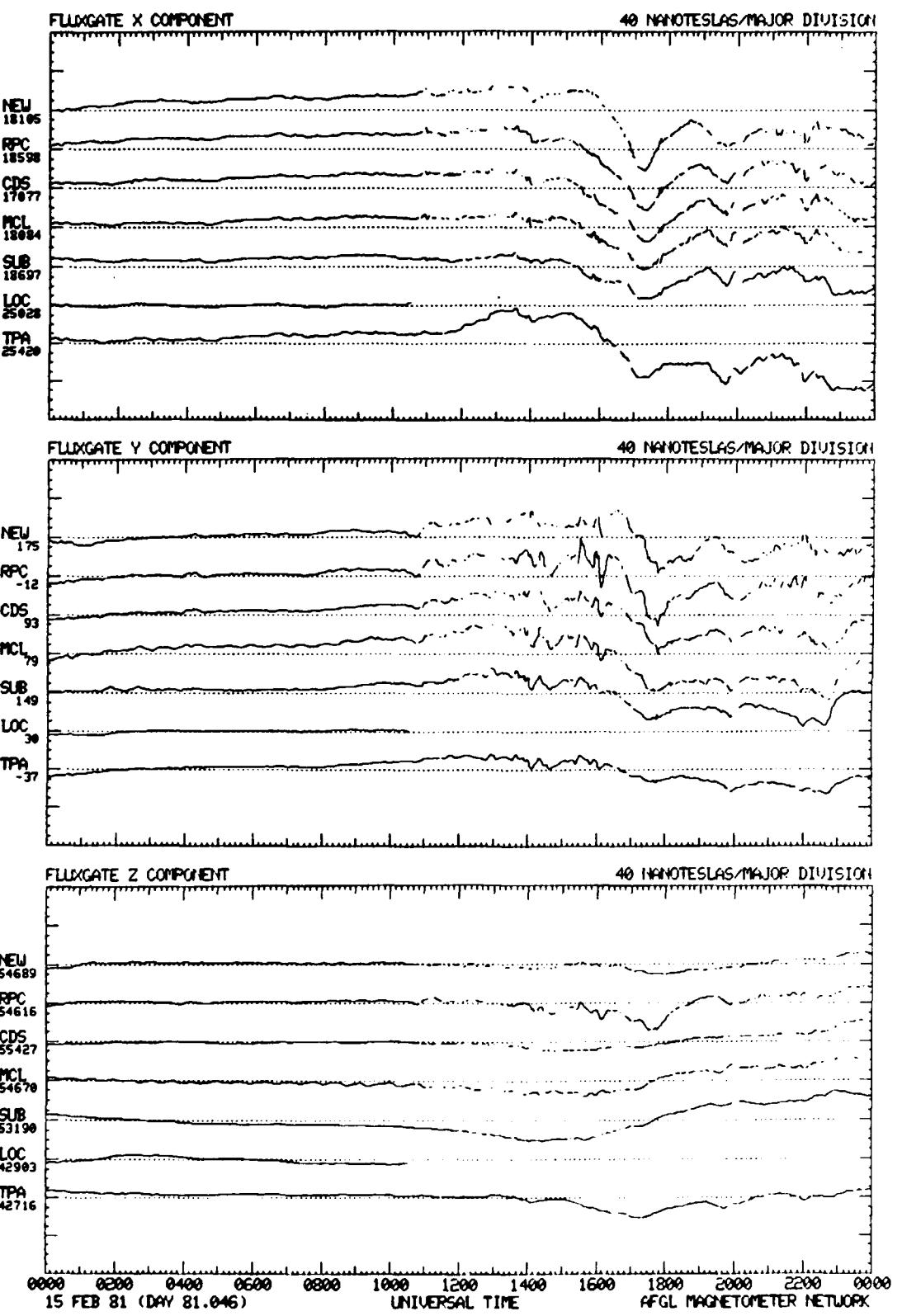
AFGL MAGNETOMETER NETWORK





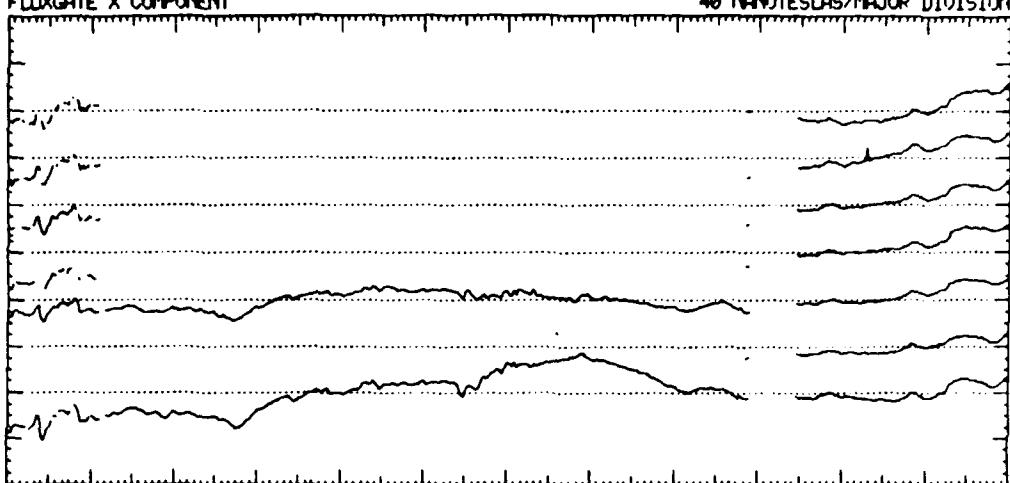






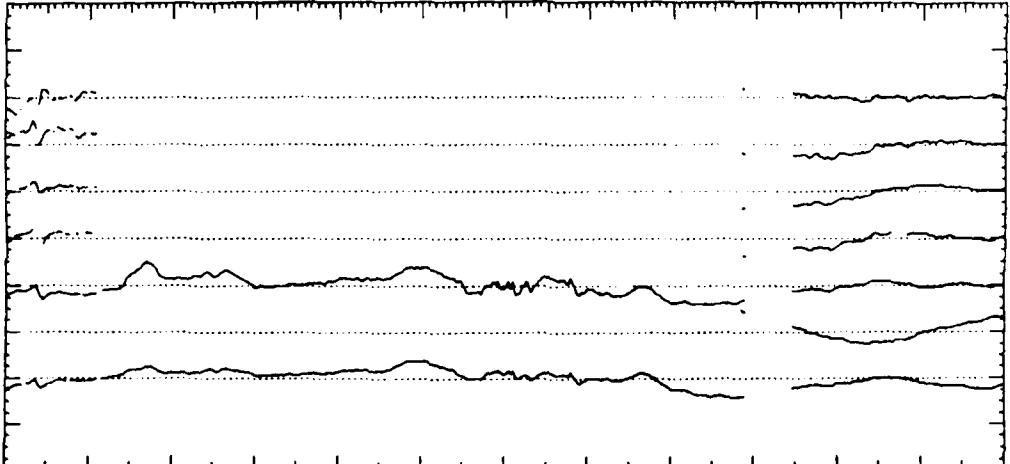
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18085
RPC
18588
CDS
17077
MCL
18095
SUB
18600
LOC
25026
TPA
25415

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
179
RPC
-16
CDS
94
MCL
76
SUB
157
LOC
17
TPA
-35

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54625
RPC
54624
CDS
55435
MCL
54675
SUB
53199
LOC
42887
TPA
427230000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 FEB 81 (DAY 81.047) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18107
RPC
18599
CDS
17087
MCL
18114
SUB
18698
LOC
25030
TPA
25425

FLUXGATE Y COMPONENT

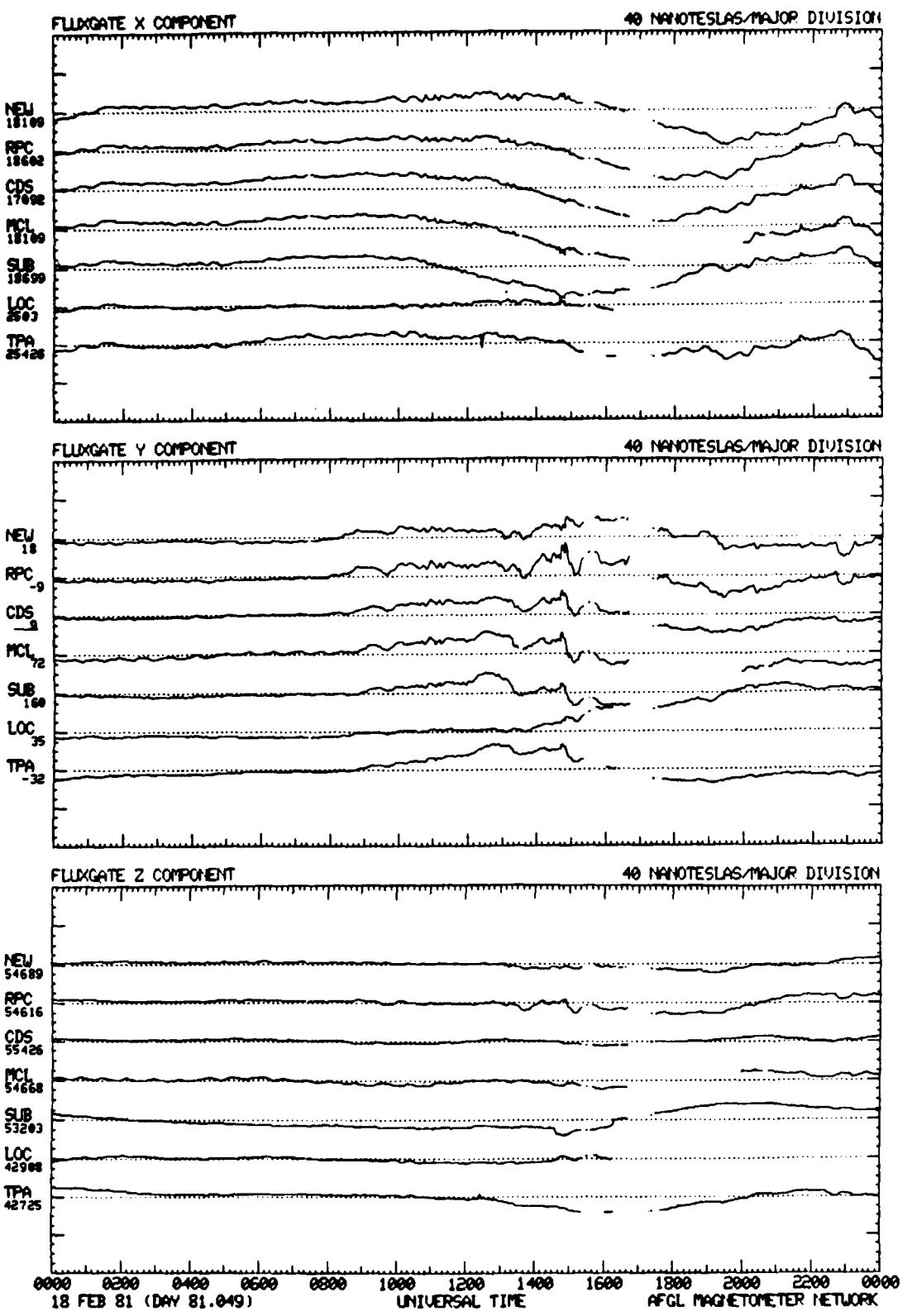
40 NANOTESLAS/MAJOR DIVISION

NEU
184
RPC
-12
CDS
94
MCL
78
SUB
160
LOC
33
TPA
35

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54690
RPC
54615
CDS
55426
MCL
54666
SUB
53207
LOC
42900
TPA
427230000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
17 FEB 81 (DAY 81.048) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18186
RPC
18603
CDS
17691
MCL
18694
SUB
18766
LOC
25636
TPA
25427

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
183
RPC
-11
CDS
90
MCL
67
SUB
163
LOC
19
TPA
-28

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54688
RPC
54616
CDS
55425
MCL
54673
SUB
53264
LOC
42875
TPA
42723

19 FEB 81 (DAY 81.050)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18103
RPC
18660
CDS
17689
MCL
18670
SUB
18636
LOC
25019
TPA
25419

FLUXGATE Y COMPONENT

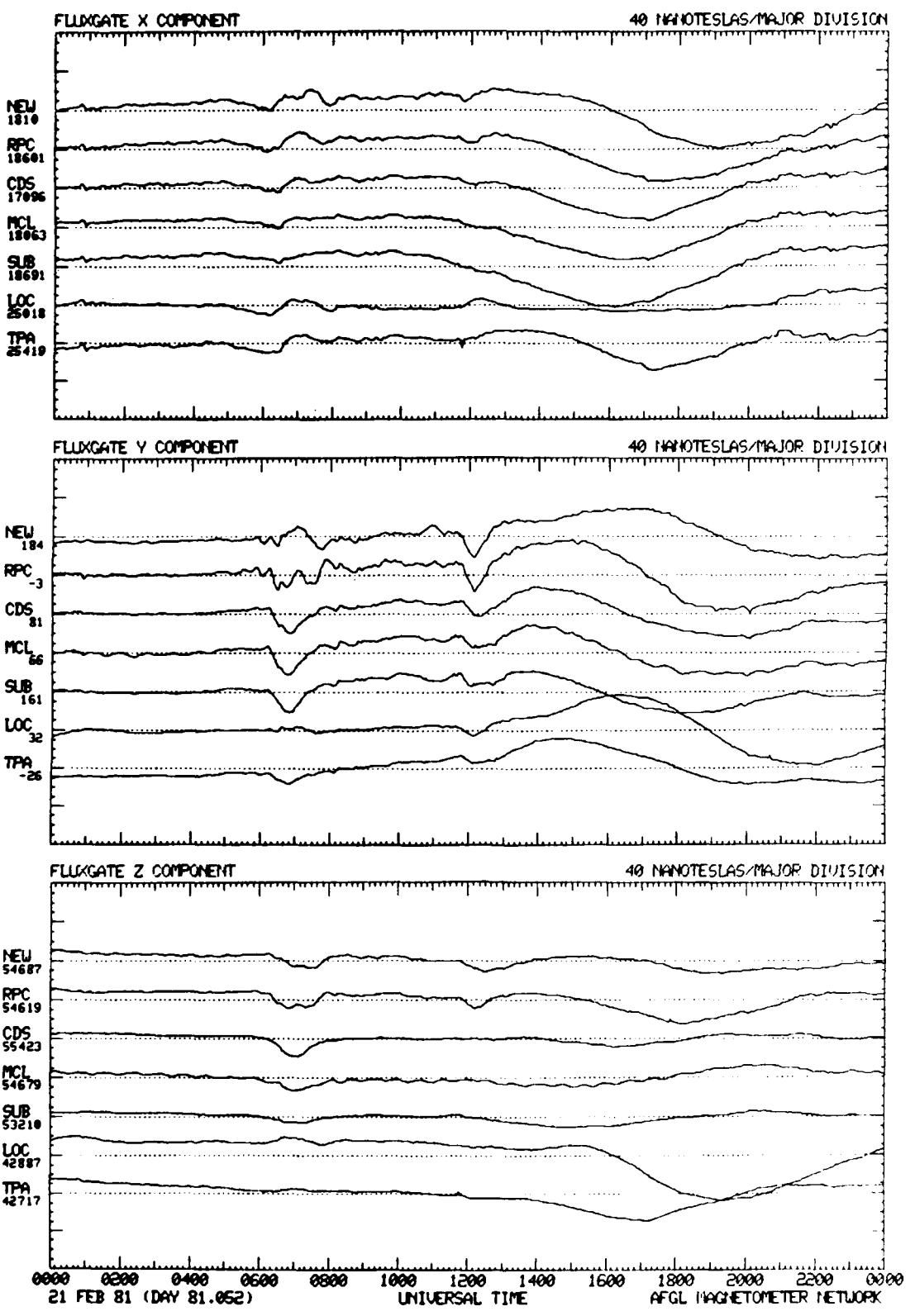
40 NANOTESLAS/MAJOR DIVISION

NEW
188
RPC
-5
CDS
80
MCL
62
SUB
160
LOC
32
TPA
-31

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54680
RPC
54619
CDS
55419
MCL
54676
SUB
53207
LOC
42891
TPA
427160000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 FEB 81 (DAY 81.051) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18111
RPC
18609
CDS
17109
MCL
18070
SUB
18701
LOC
25027
TPA
25430

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

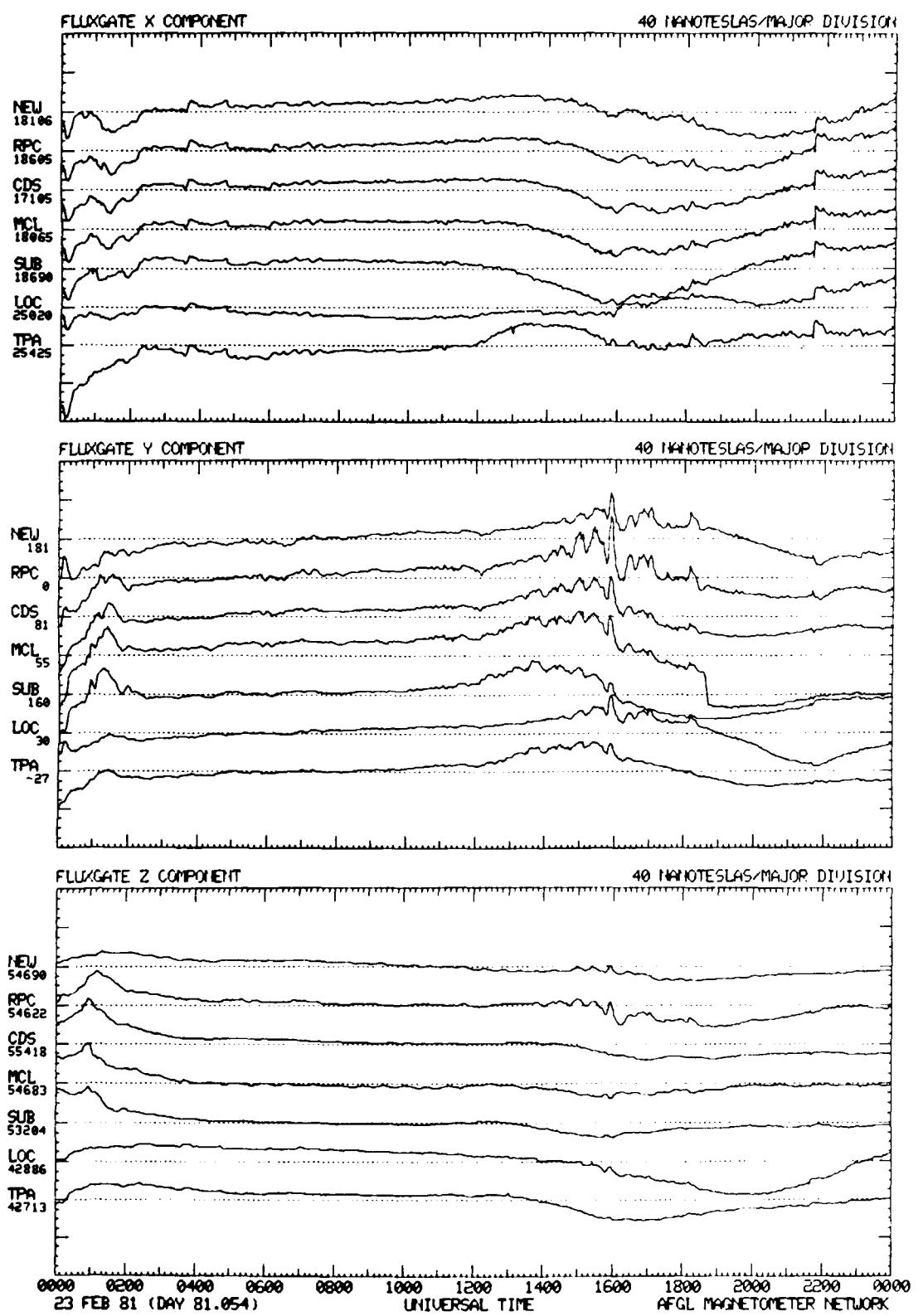
NEW
178
RPC
-5
CDS
78
MCL
62
SUB
161
LOC
30
TPA
-31

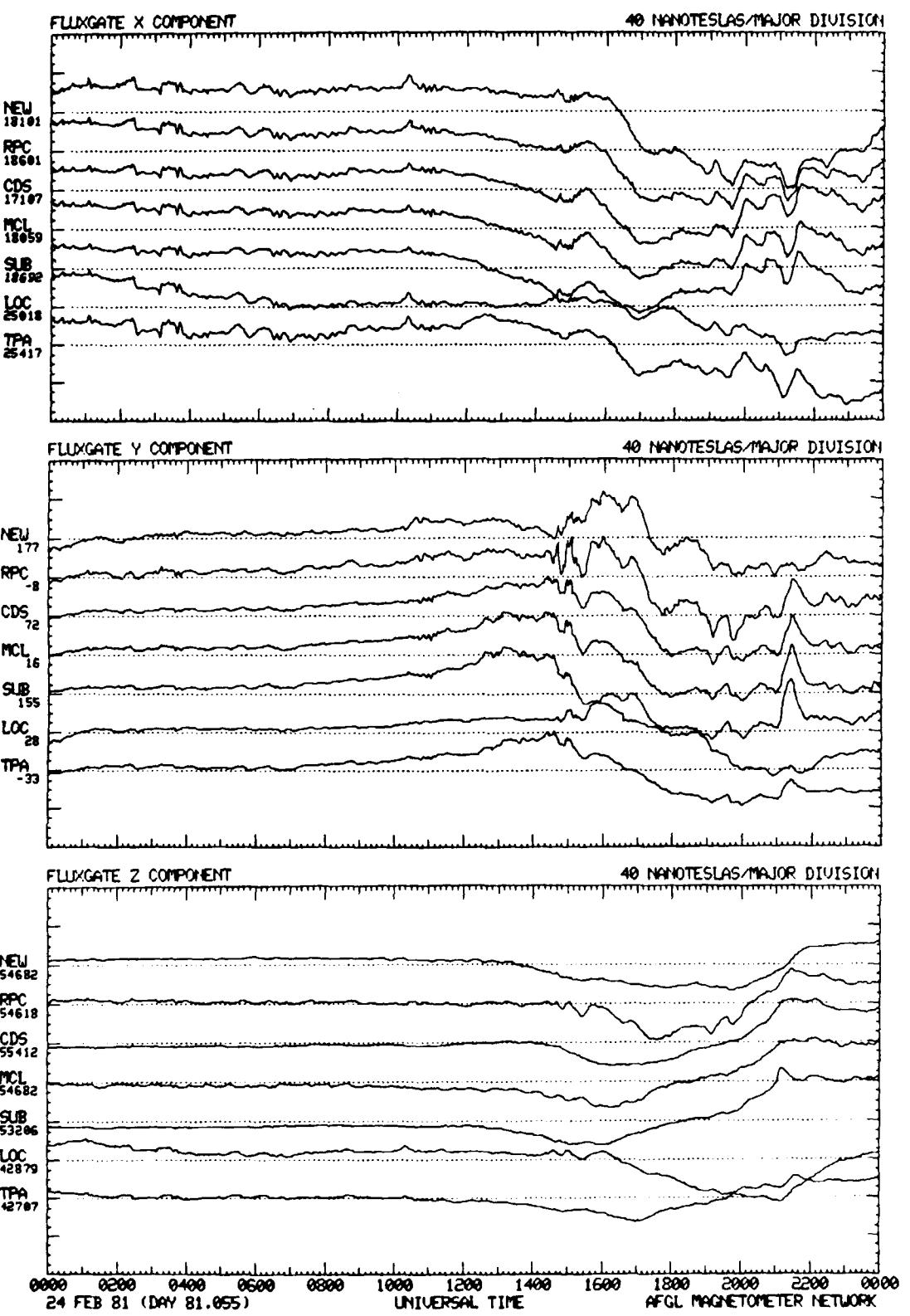
FLUXGATE Z COMPONENT

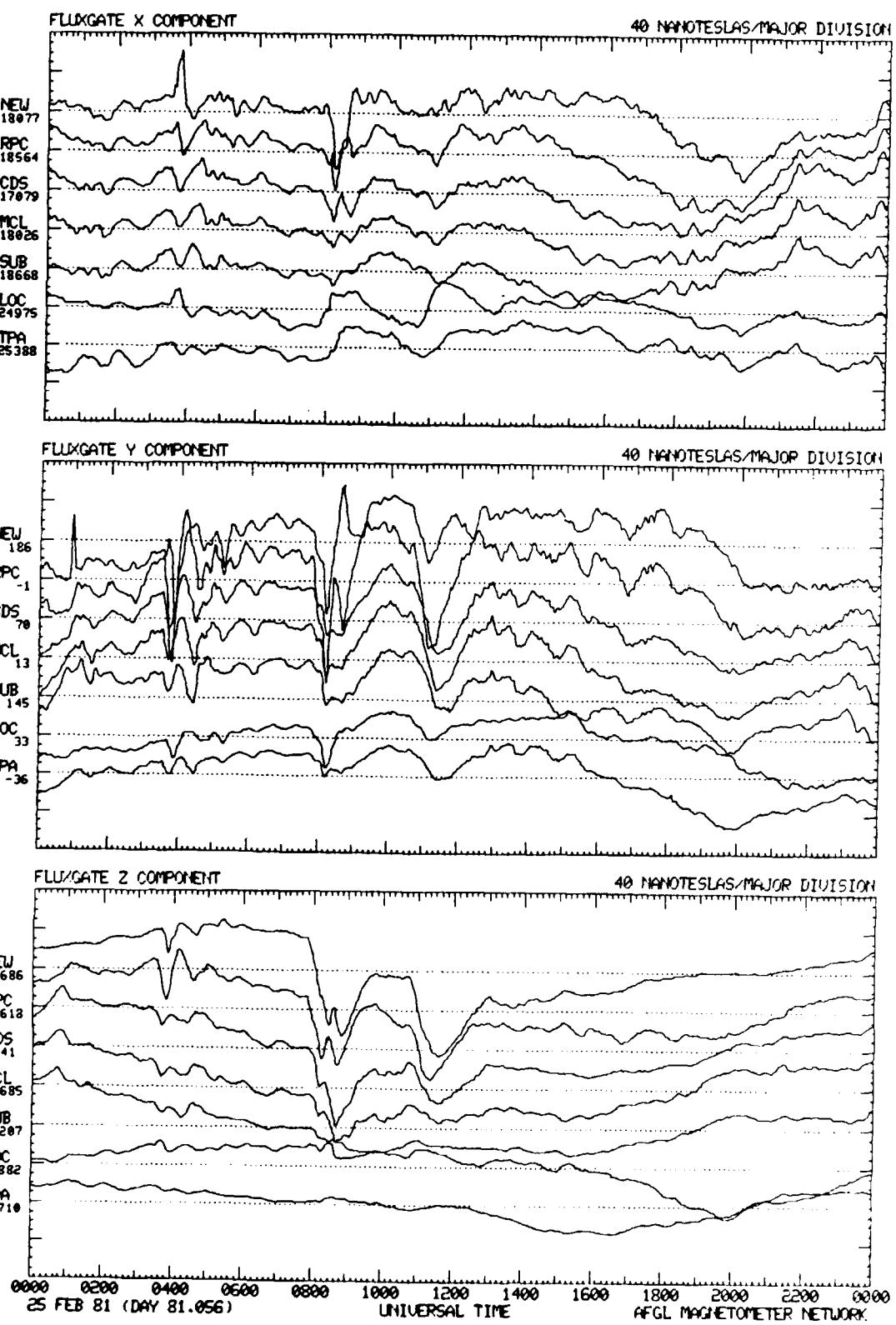
40 NANOTESLAS/MAJOR DIVISION

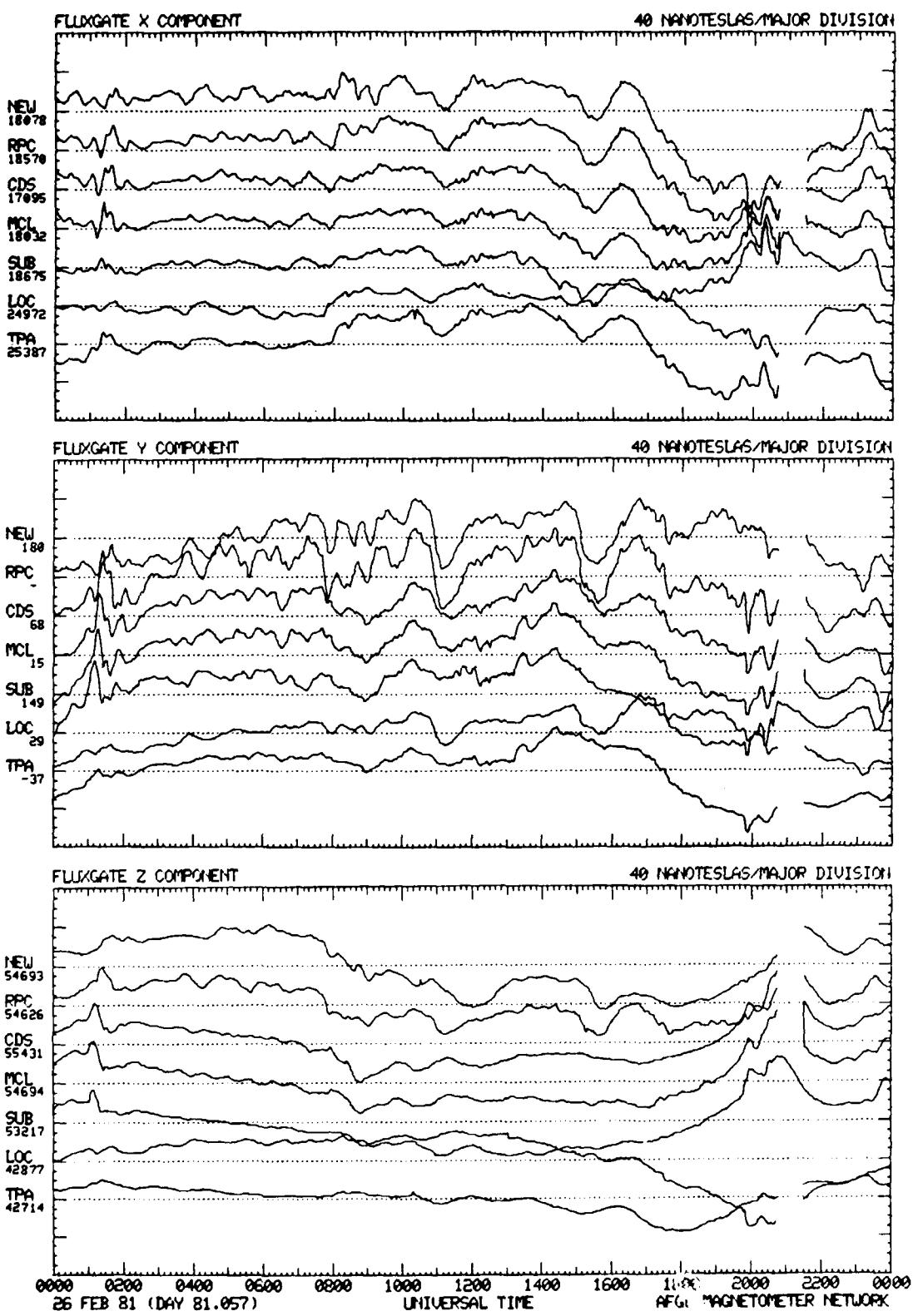
NEW
54687
RPC
54619
CDS
55421
MCL
54679
SUB
53205
LOC
42880
TPA
42769

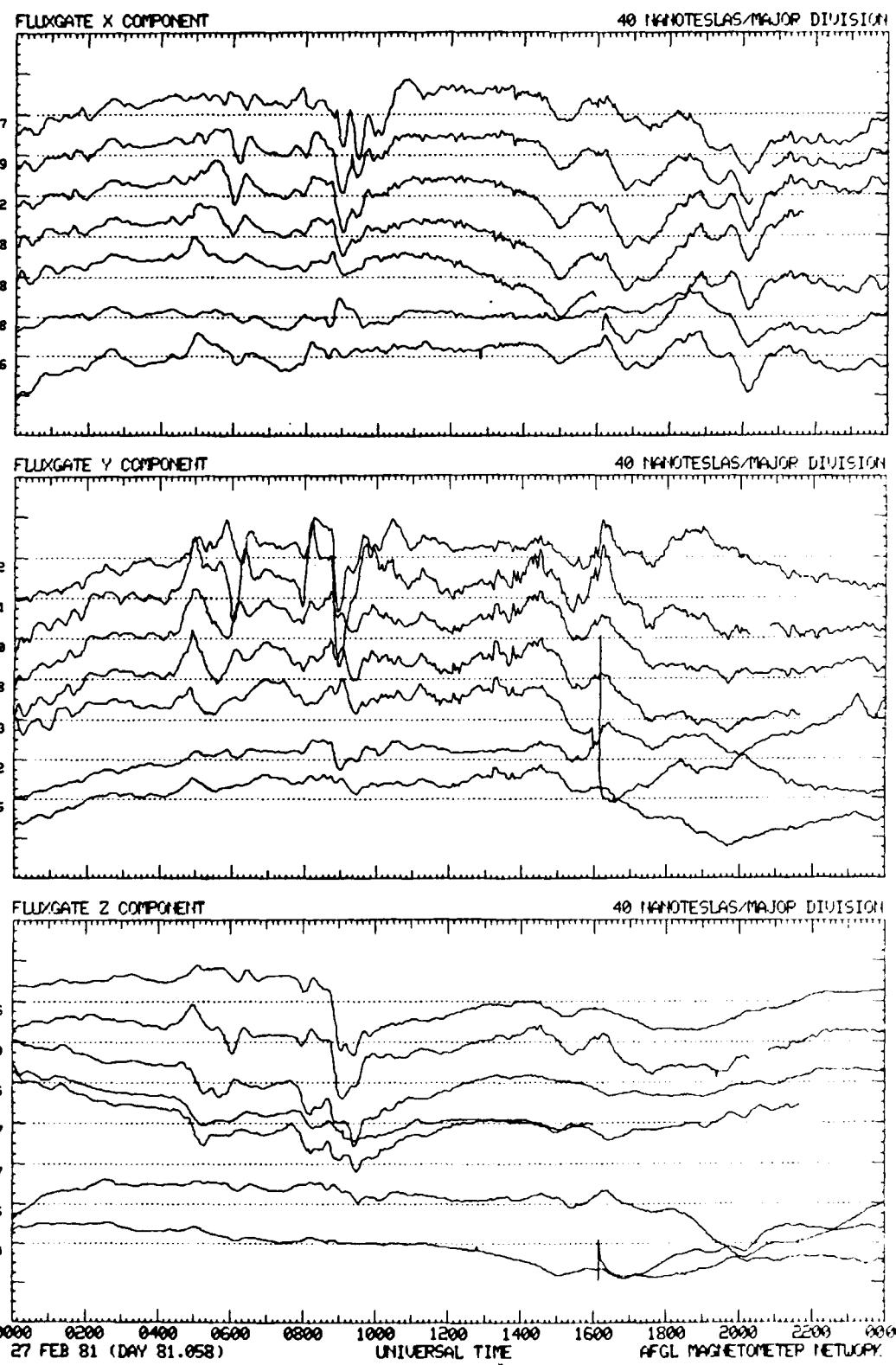
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22 FEB 81 (DAY 81.053) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

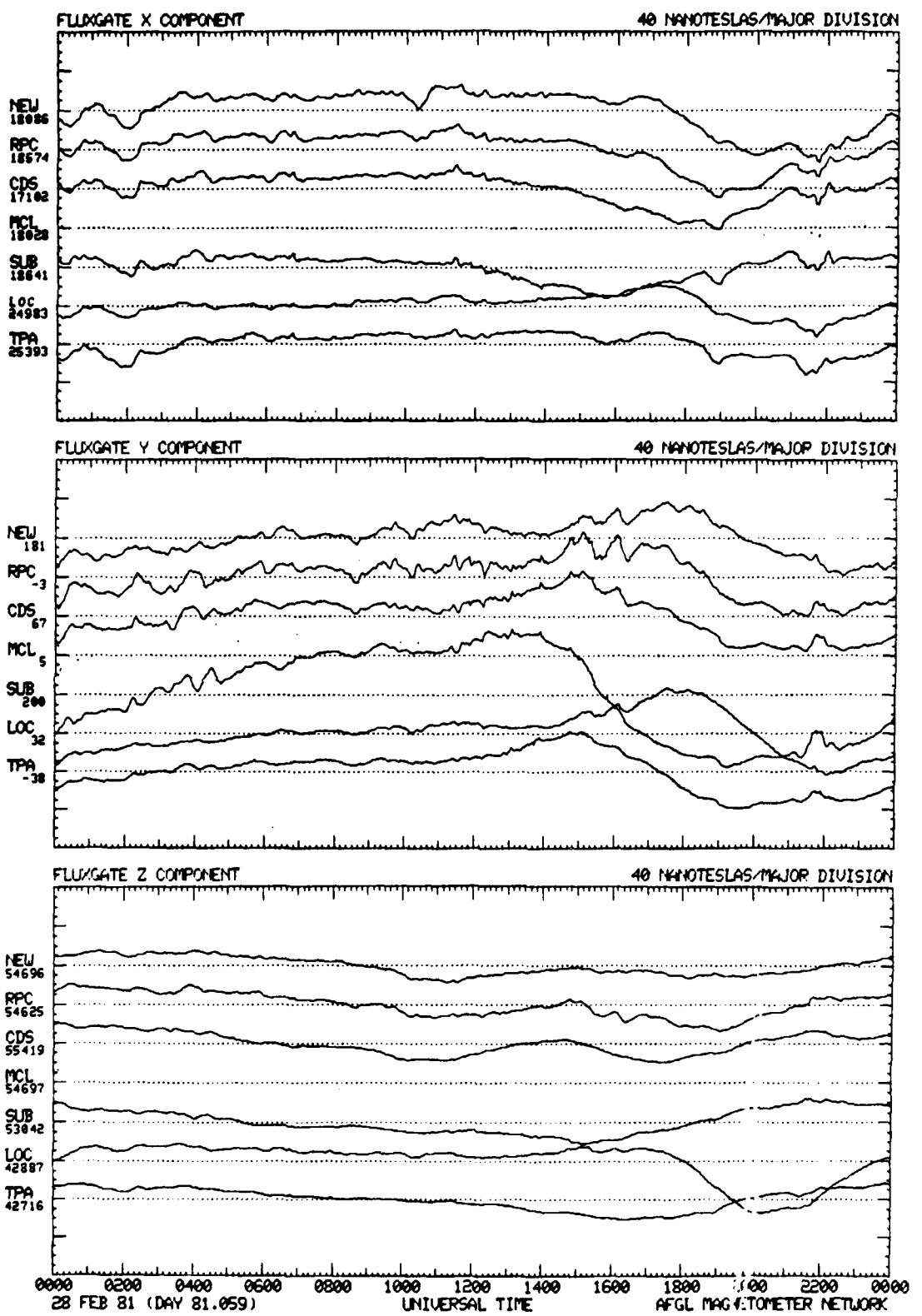


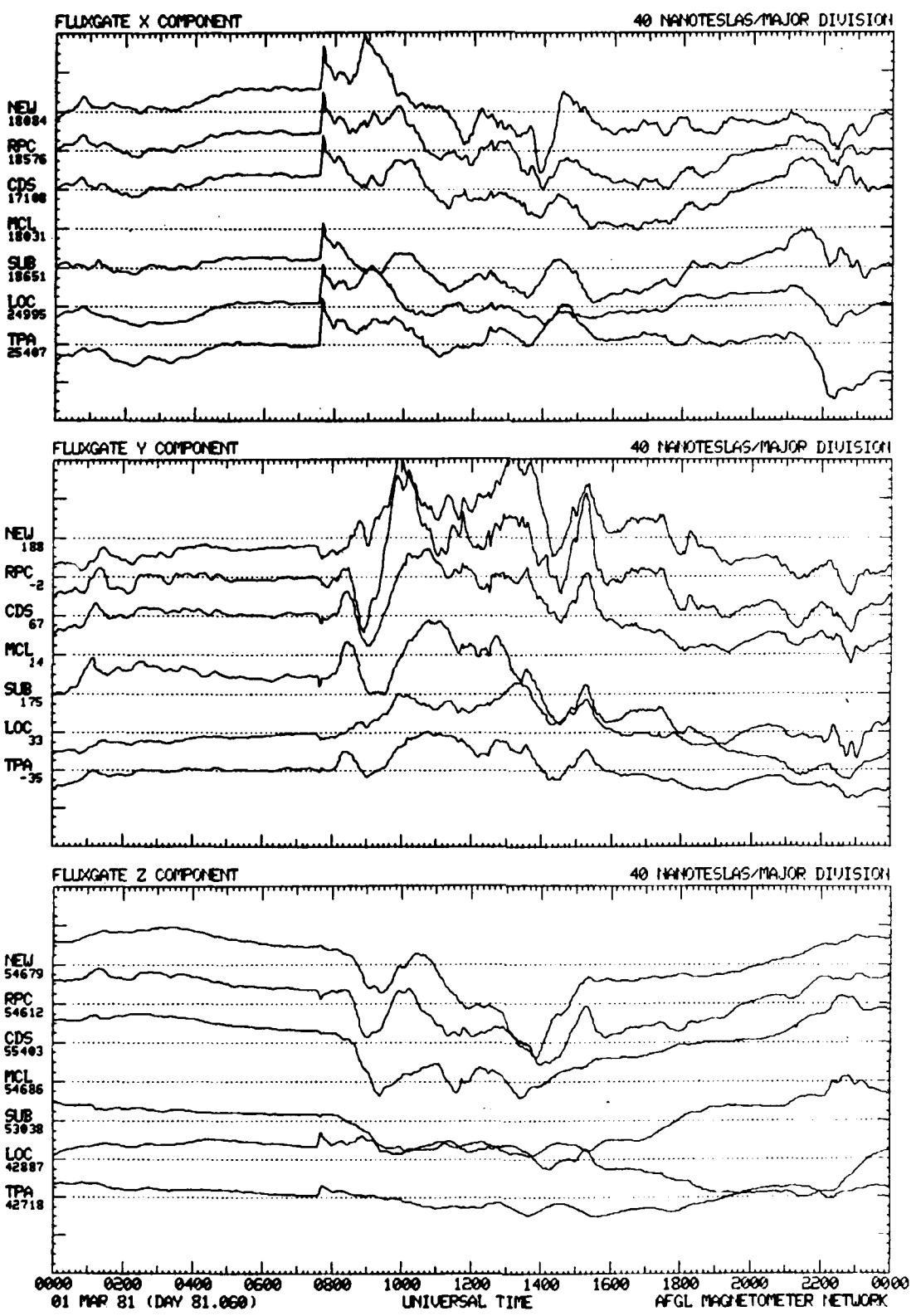


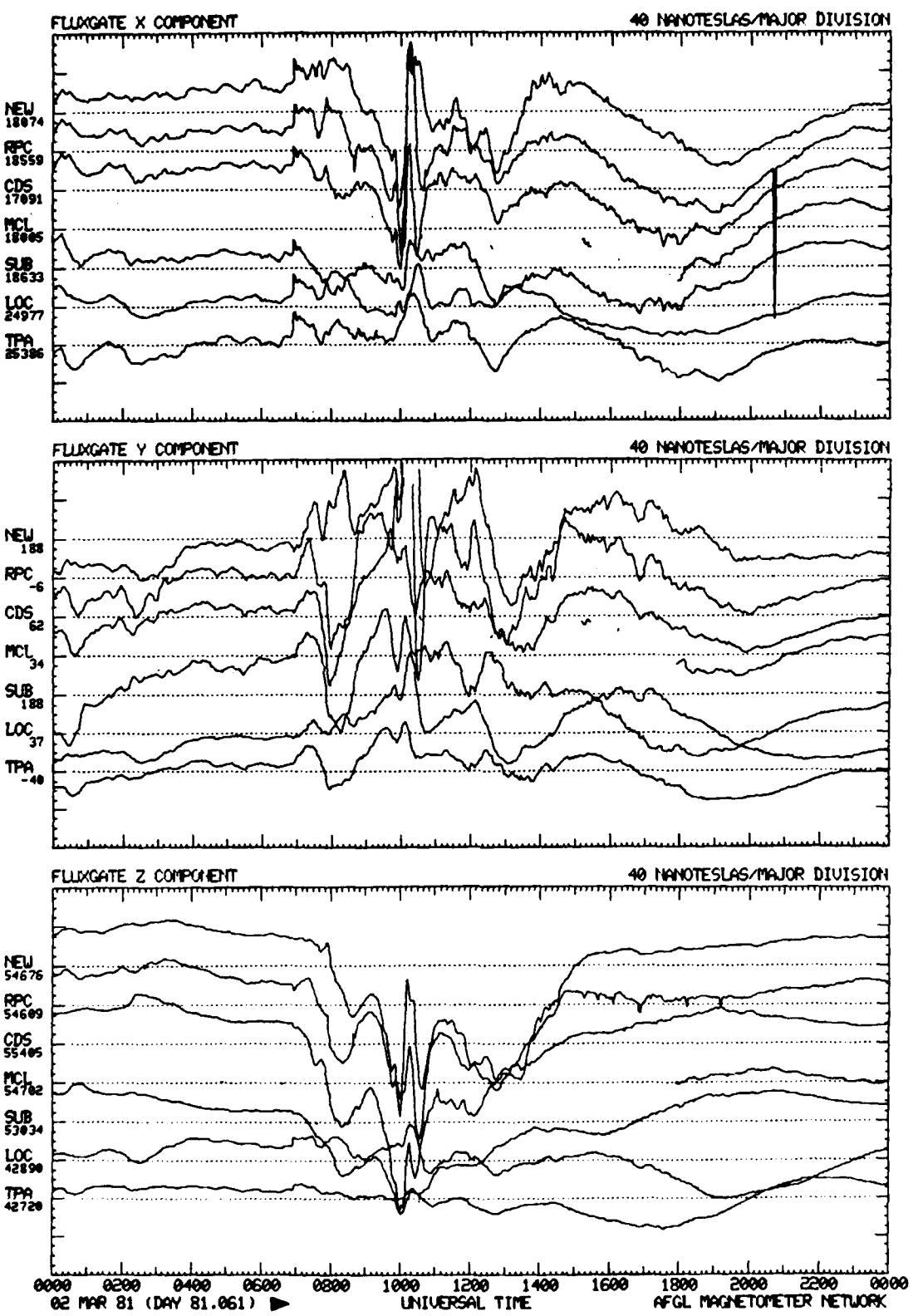












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18088
RPC
18575
CDS
17106
MCL
18018
SUB
18648
LOC
24982
TPA
25397

FLUXGATE Y COMPONENT

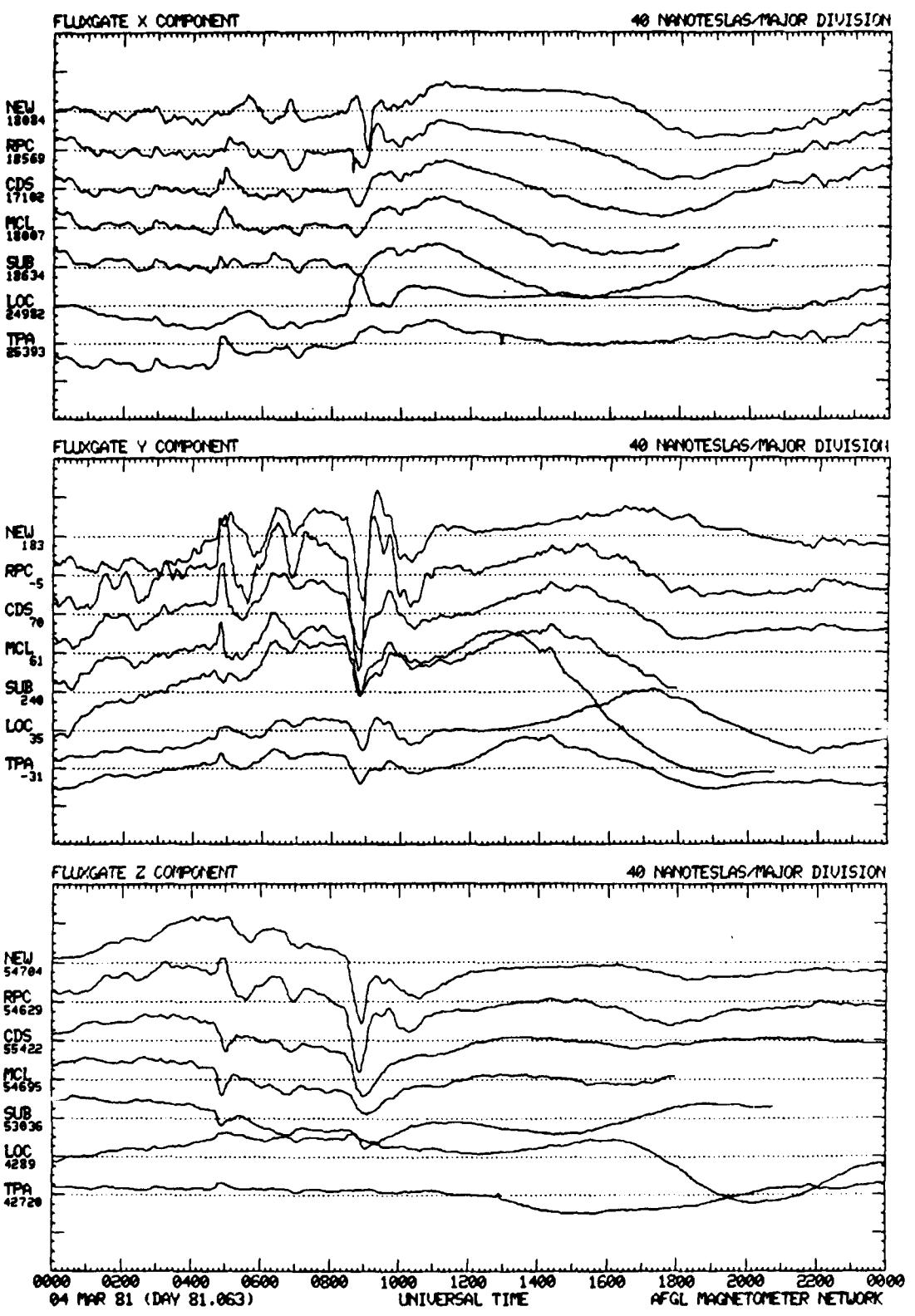
40 NANOTESLAS/MAJOR DIVISION

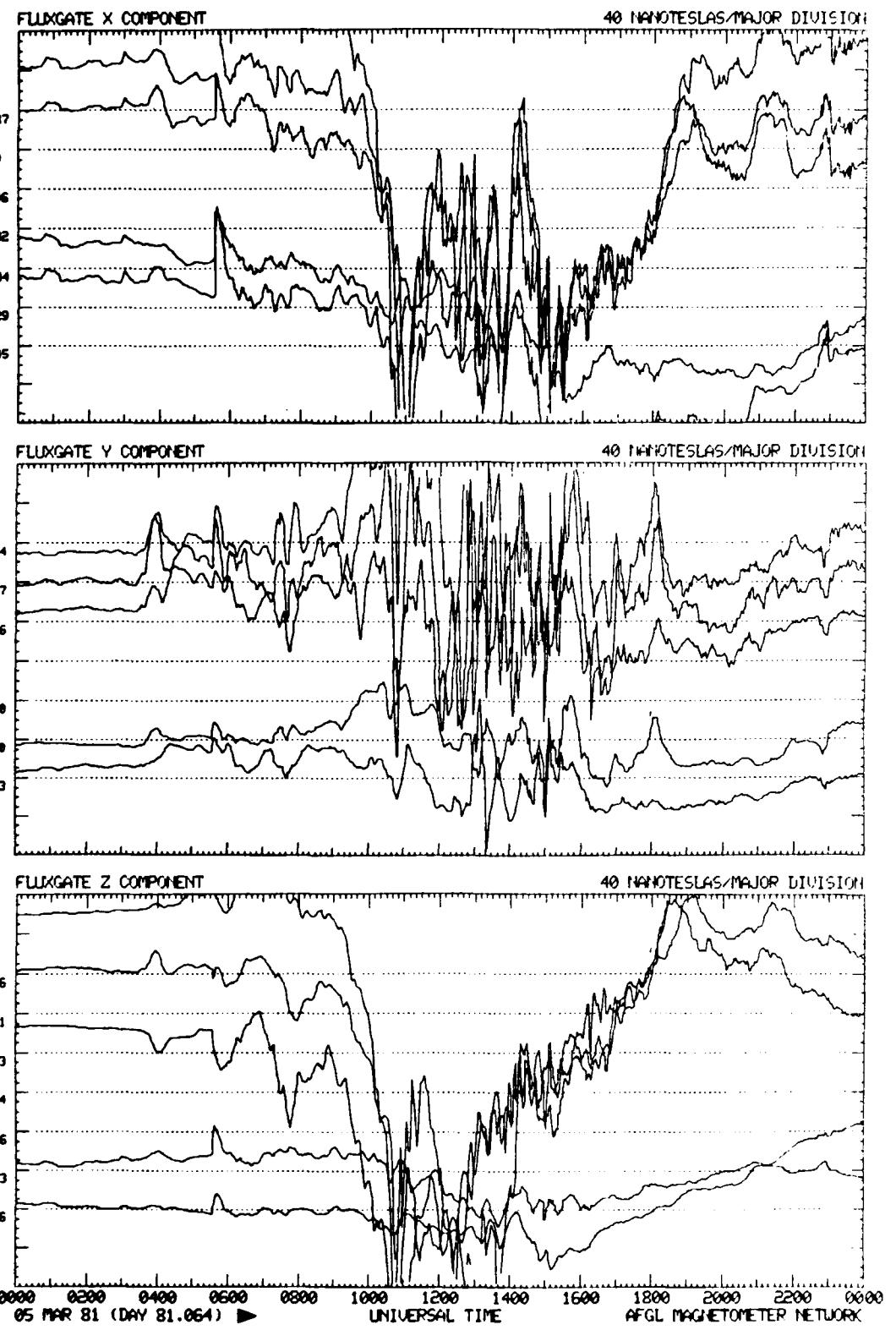
NEU
183
RPC
-8
CDS
61
MCL
59
SUB
200
LOC
34
TPA
-39

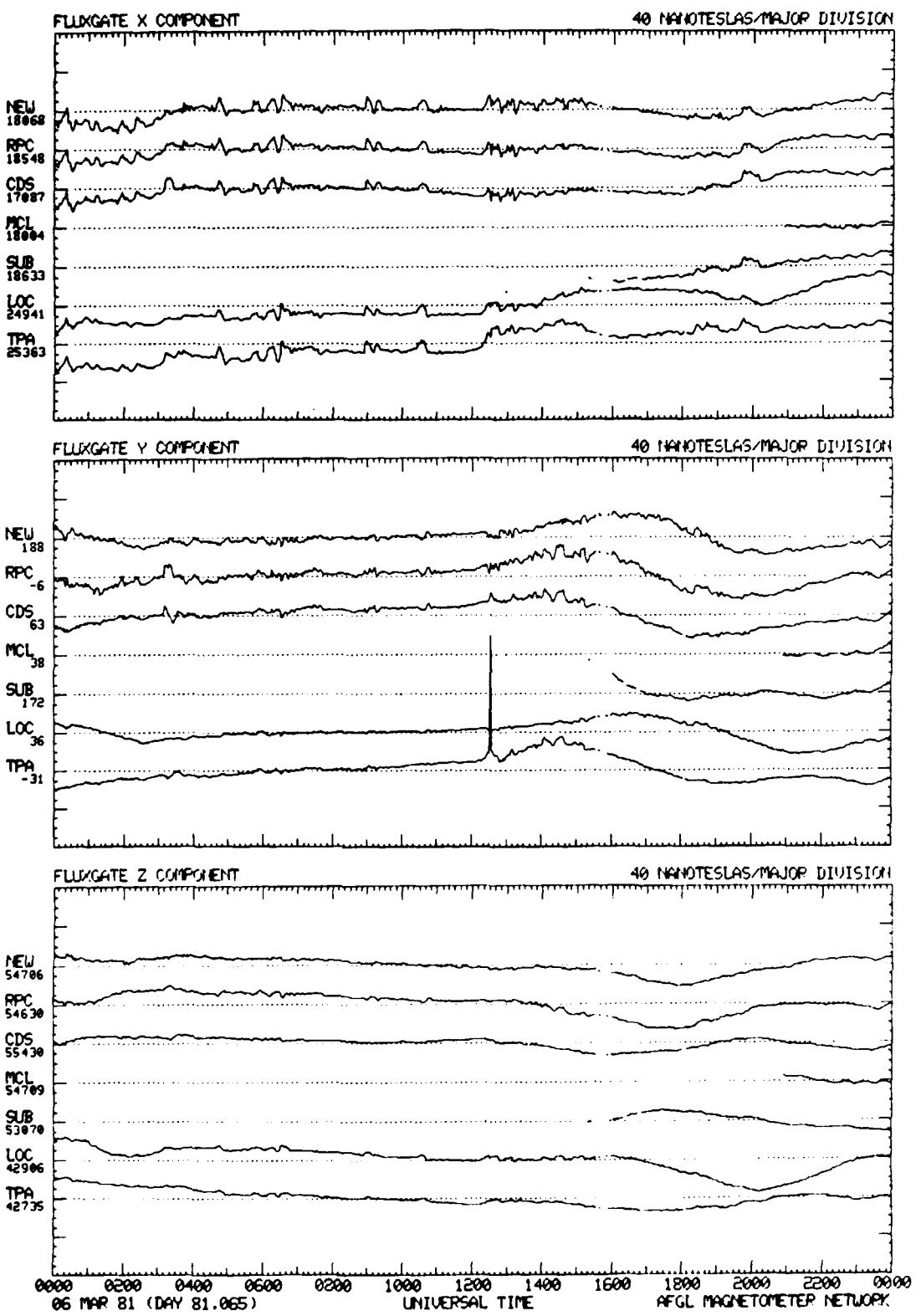
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54697
RPC
54626
CDS
55421
MCL
54693
SUB
53043
LOC
42892
TPA
427210000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 MAR 81 (DAY 81.062) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18068
RPC
18551
CDS
17091
MCL
17996
SUB
18637
LOC
24967
TPA
25388

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
179
RPC
-15
CDS
53
MCL
38
SUB
174
LOC
32
TPA
-4

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54676
PPC
54611
CDS
55411
MCL
54692
SUB
5304
LOC
42829
TPA
427180000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 MAR 81 (DAY 81.066) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 18086
RPC 18567
CDS 17187
MCL 18093
SUB 18646
LOC 24975
TPA 25391

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 189
RPC -2
CDS 66
MCL 48
SUB 187
LOC 35
TPA -33

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 54700
RPC 54625
CDS 55415
MCL 54696
SUB 53847
LOC 42900
TPA 4272

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
08 MAR 81 (DAY 81.067) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
1896
RPC
18579
CDS
17118
MCL
18019
SUB
18657
LOC
24990
TPA
25415

FLUXGATE Y COMPONENT

40 NANOTESLS/MAJOR DIVISION

NEW
184
RPC
-7
CDS
63
MCL
48
SUB
186
LOC
34
TPA
-36

FLUXGATE Z COMPONENT

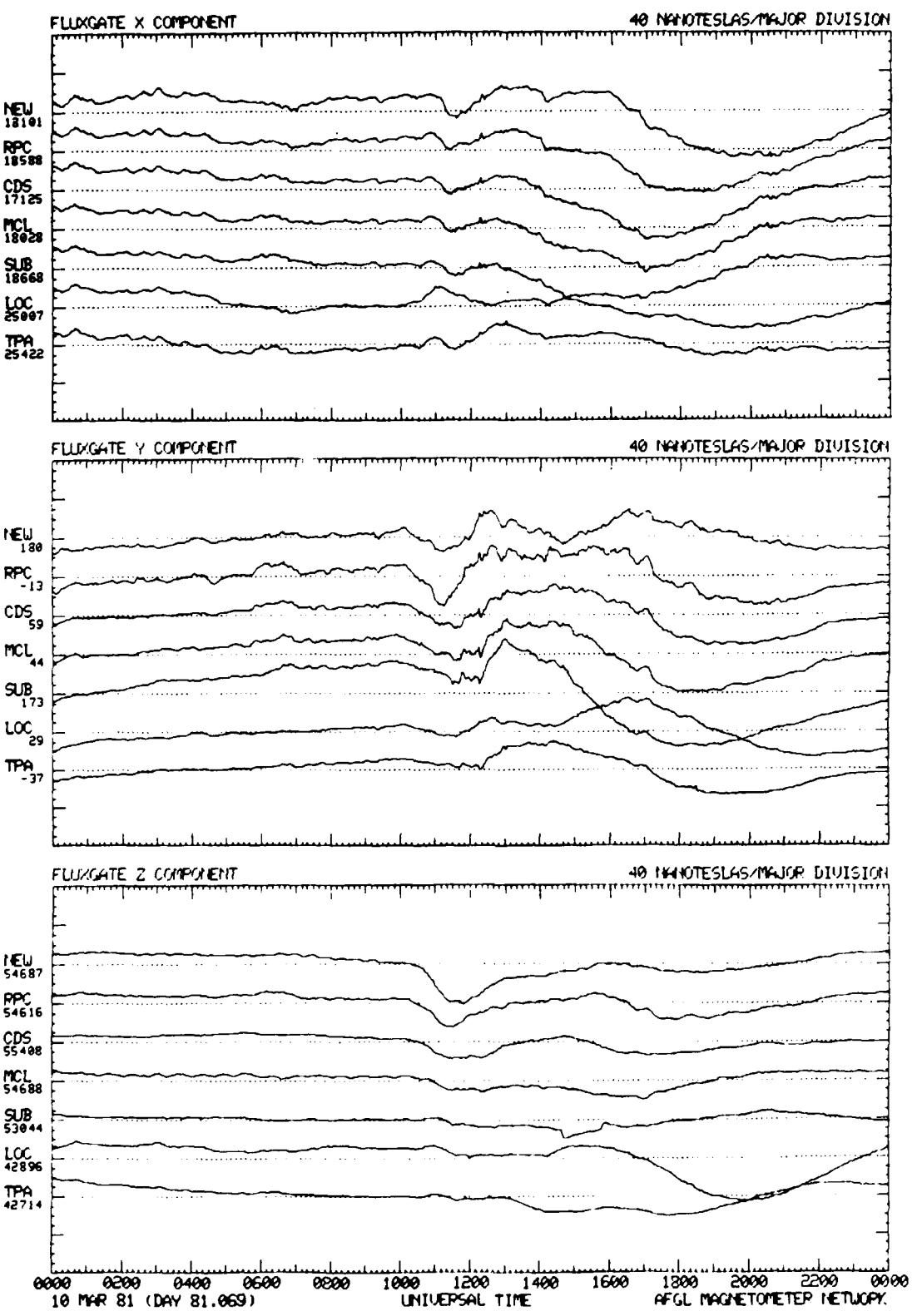
40 NANOTESLAS/MAJOR DIVISION

NEW
54697
RPC
54623
CDS
55414
MCL
54697
SUB
53844
LOC
42896
TPA
42718

09 MAR 81 (DAY 81.068)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18100
RPC
18588
CDS
17120
MCL
18023
SUB
18663
LOC
25001
TPA
25413

FLUXGATE Y COMPONENT

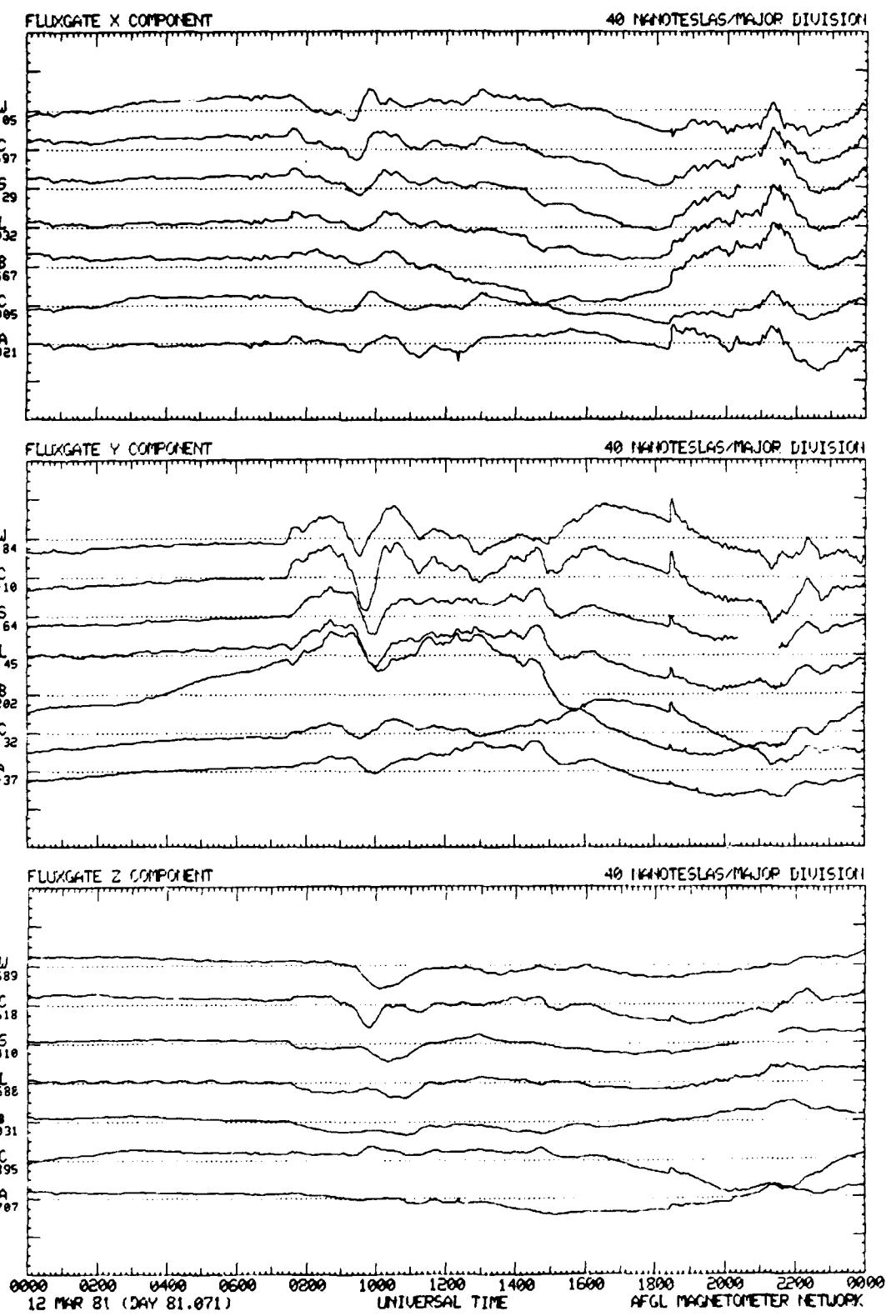
40 NANOTESLAS/MAJOR DIVISION

NEU
185
RPC
-9
CDS
61
MCL
50
SUB
199
LOC
34
TPA
-37

FLUXGATE Z COMPONENT

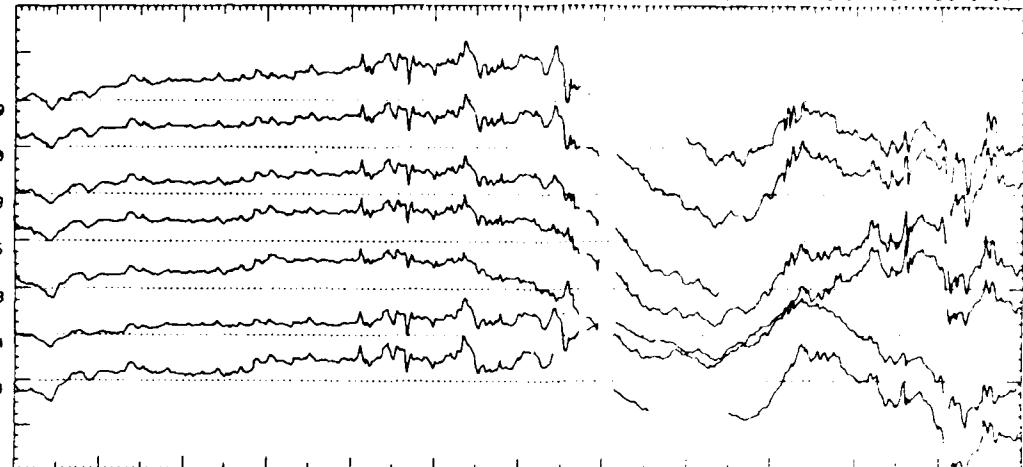
40 NANOTESLAS/MAJOR DIVISION

NEU
54689
PPC
54617
CDS
55408
MCL
54688
SUB
53034
LOC
42895
TPA
427060000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 MAR 81 (DAY 81.070) UNIUEPSAL TIME AFGL MAGNETOMETER NETWORK



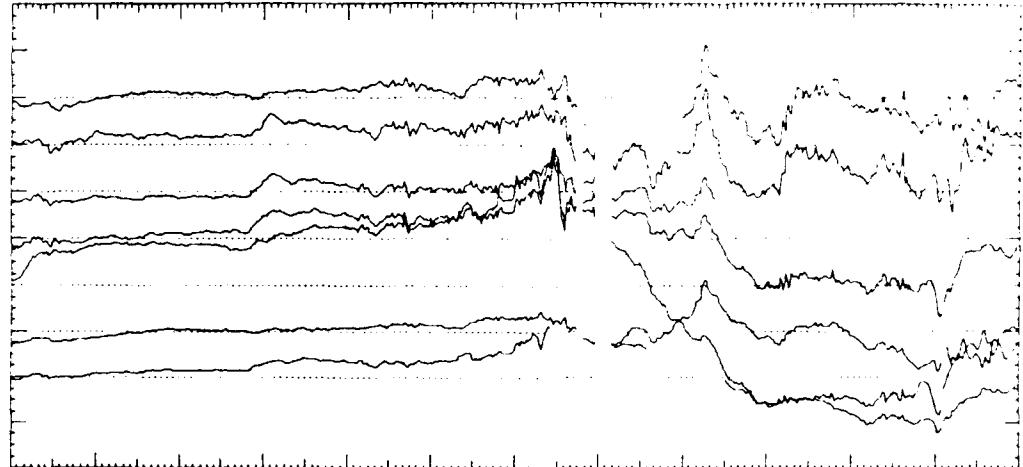
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18099
RPC
18598
CDS
17133
MCL
18025
SUB
18663
LOC
25004
TPA
25414

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

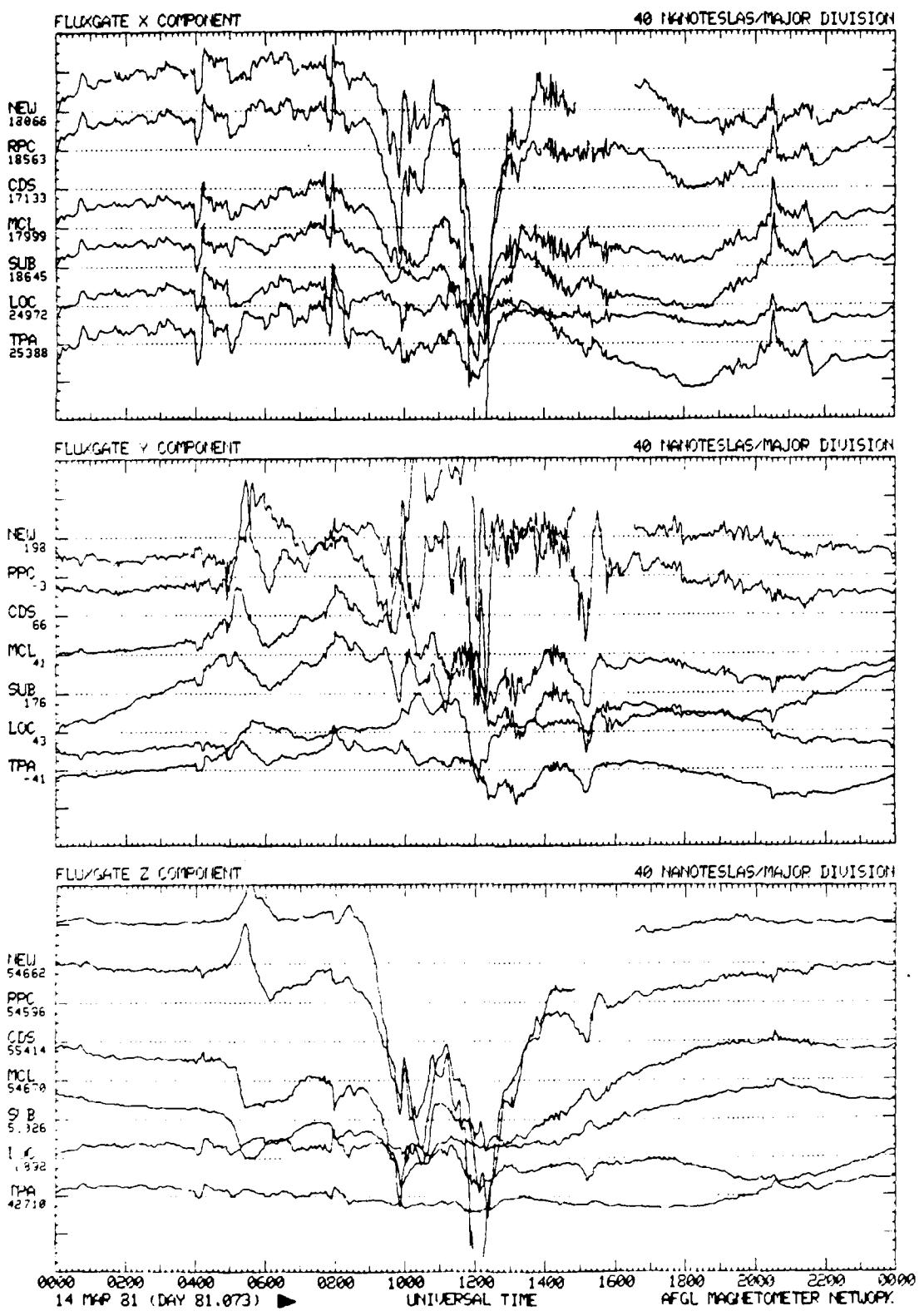
NEW
176
PPC
-21
CDS
66
MCL
44
SUB
183
LOC
26
TPA
-43

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54684
PPC
54617
CDS
55414
MCL
54693
SUB
53837
LOC
42829
TPA
4270

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 MAR 81 (DAY 81.072) UNIVEPSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18881
RPC
18575
CDS
17107
MCL
18014
SUB
18649
LOC
24971
TPA
25393

FLUXGATE Y COMPONENT

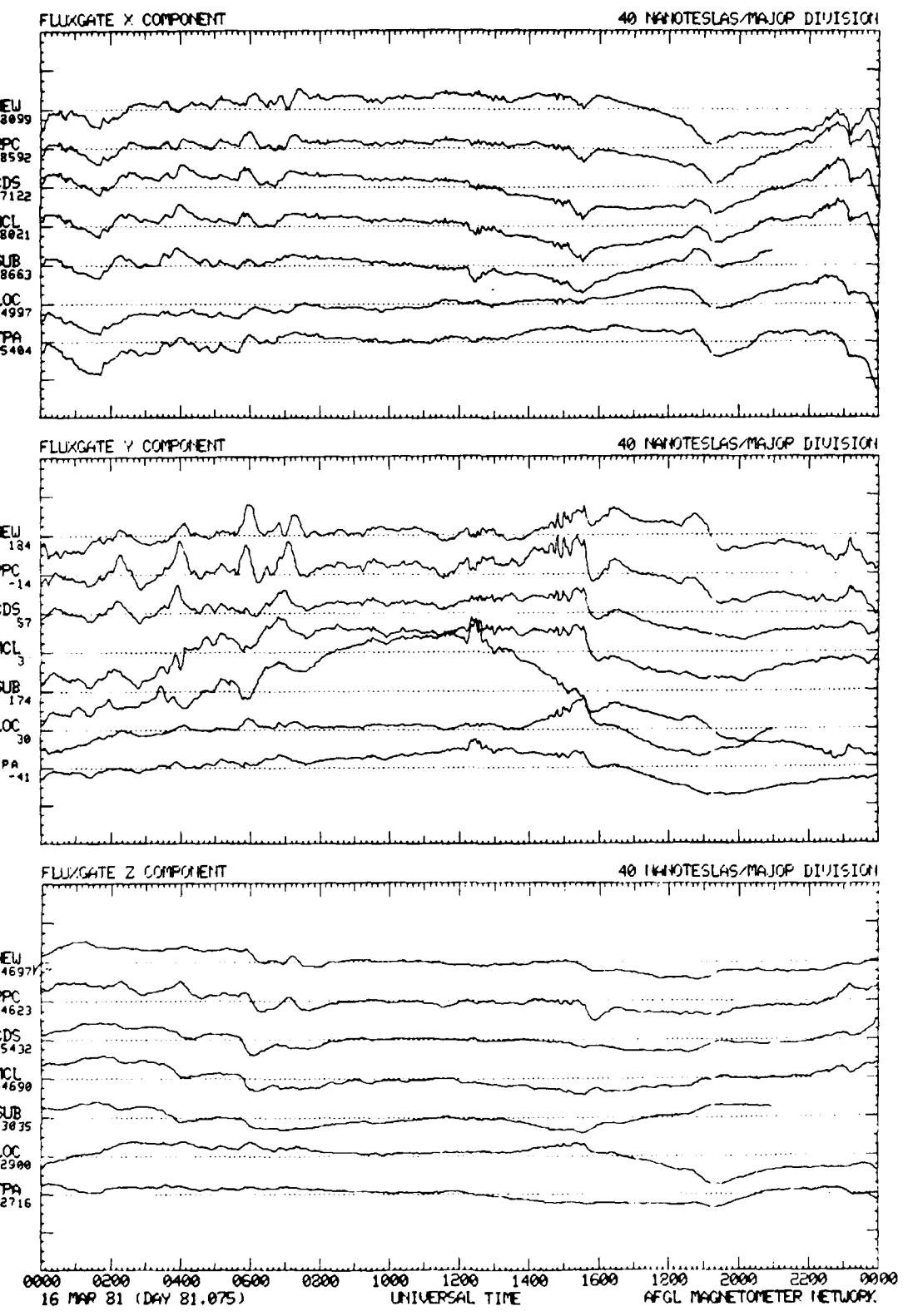
40 NANOTESLAS/MAJOR DIVISION

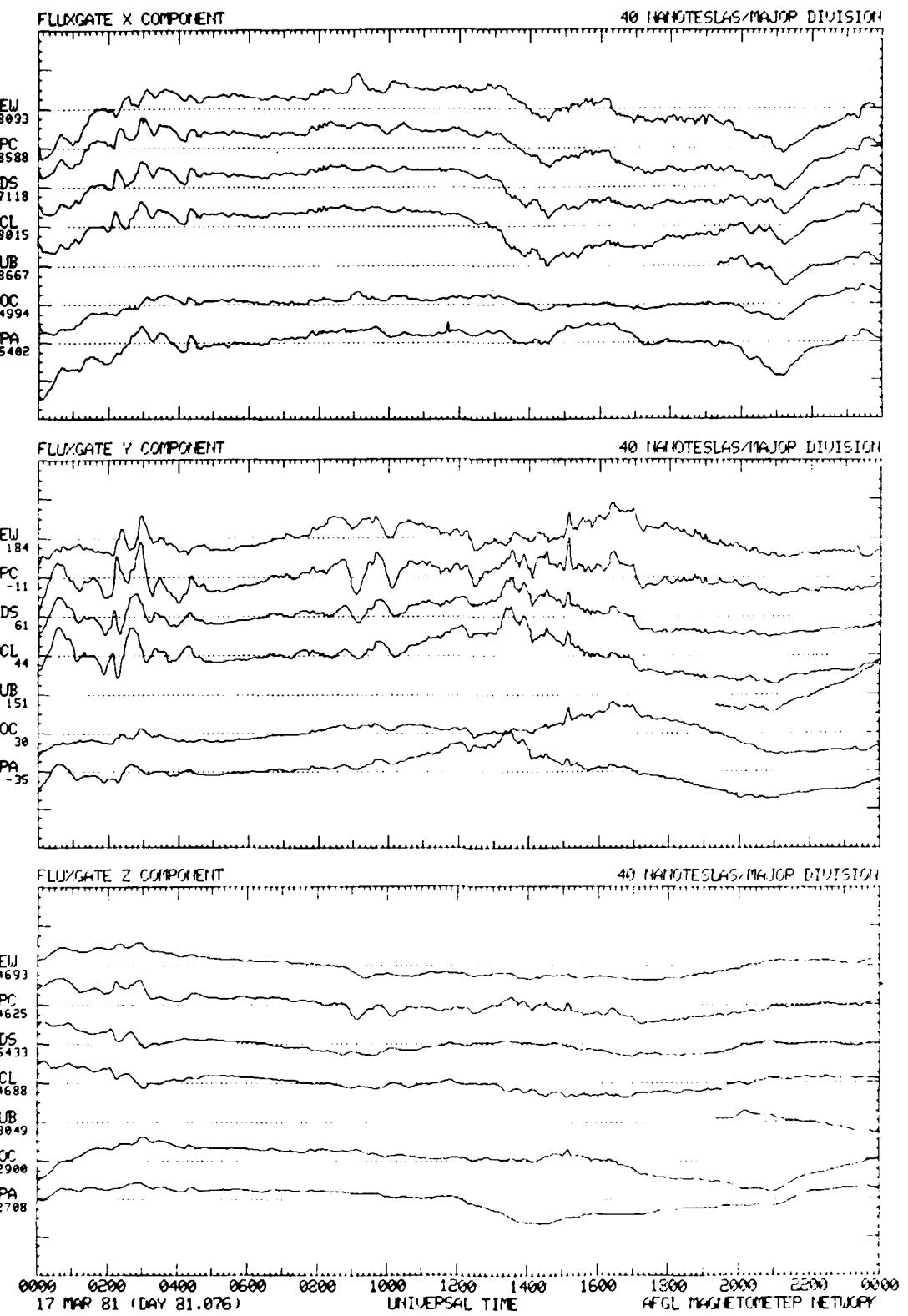
NEU
187
RPC
-14
CDS
45
MCL
30
SUB
198
LOC
31
TPA
-39

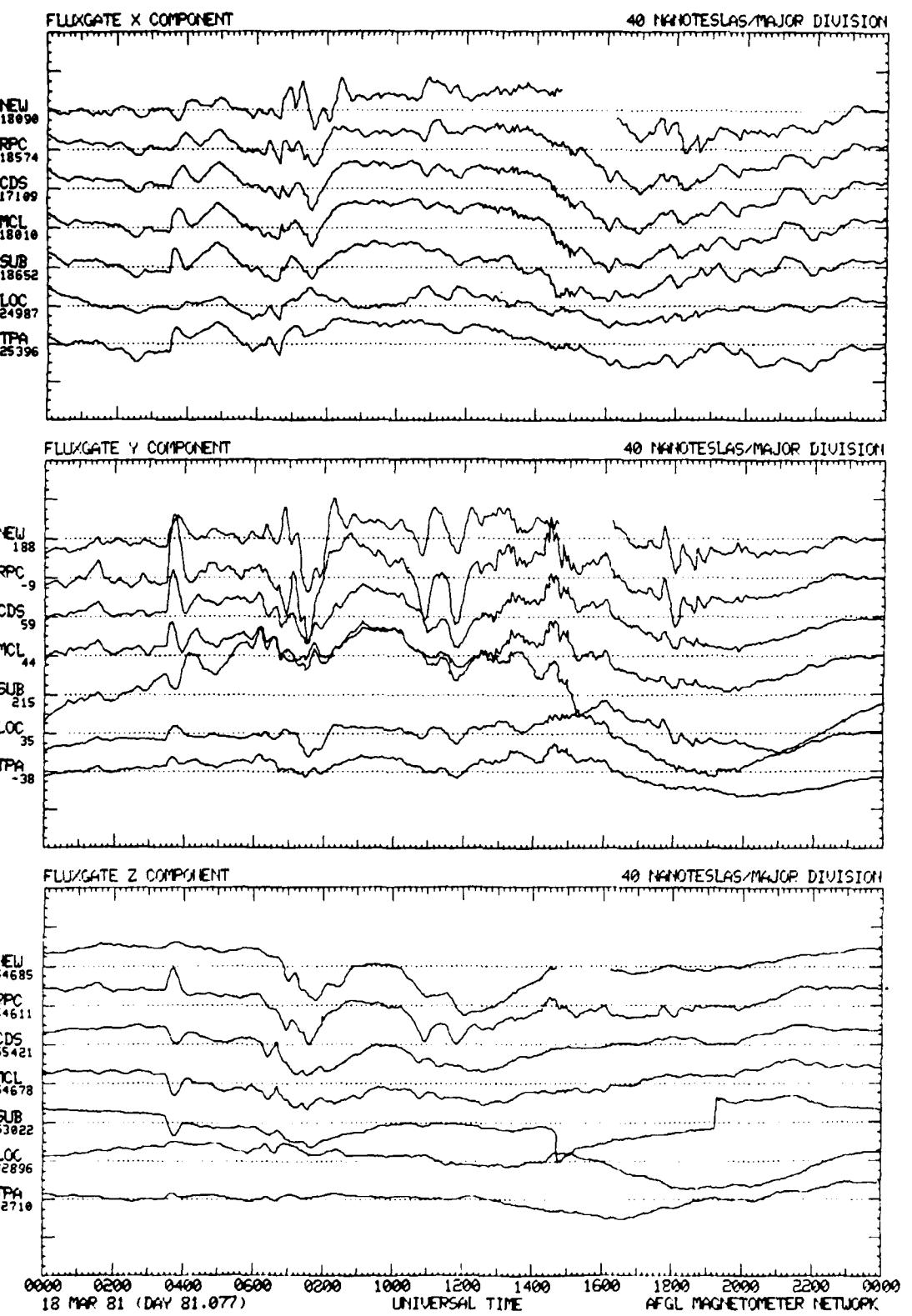
FLUXGATE Z COMPONENT

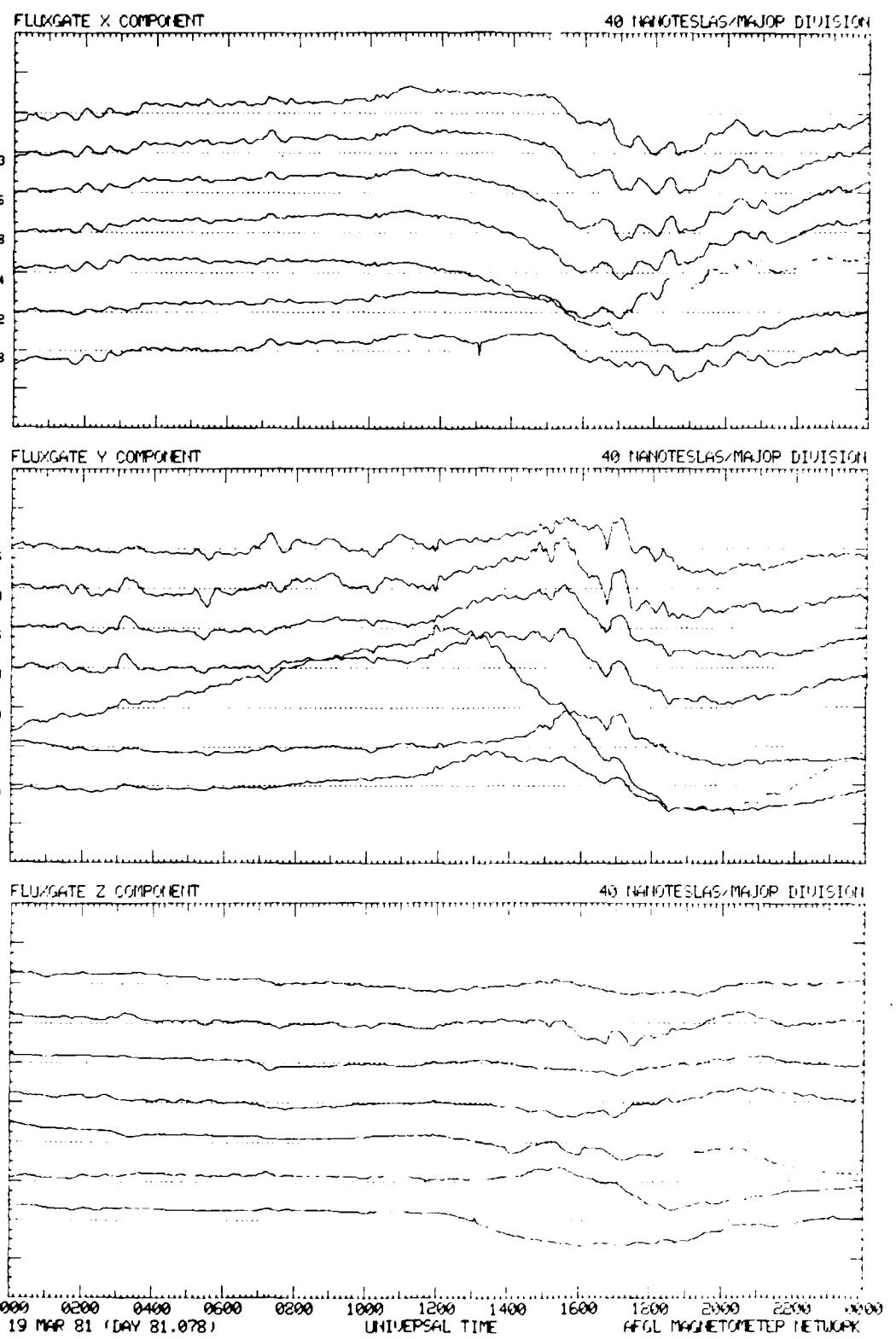
40 NANOTESLAS/MAJOR DIVISION

NEU
54698
RPC
54625
CDS
55430
MCL
54695
SUB
53039
LOC
42893
TPA
427140000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 MAR 21 (DAY 81.074) ► UNIVERSAL TIME AFGL MAGNETO TEP NET/JOP









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12096
RPC
18586
CDS
17117
MCL
18024
SUB
18659
LOC
24992
TPA
2541

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
186
RPC
-15
CDS
51
MCL
41
SUB
216
LOC
28
TPA
-38

FLUXGATE Z COMPONENT

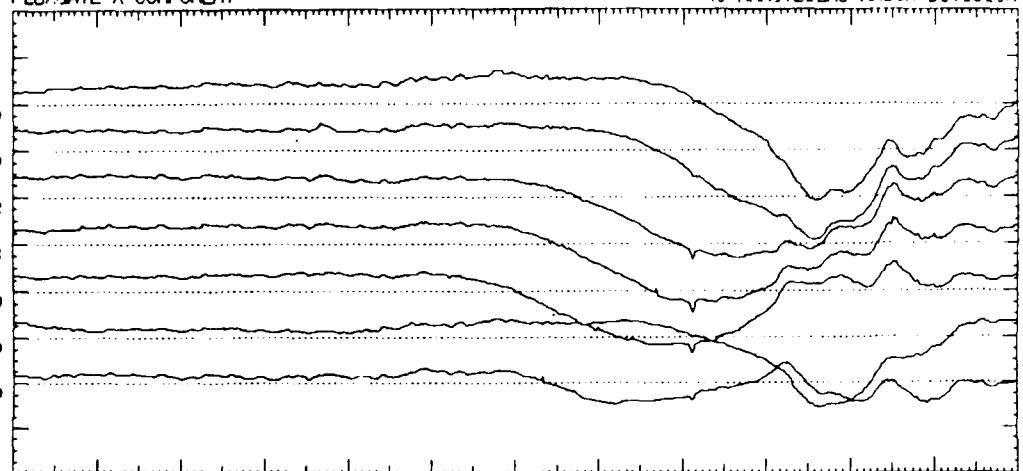
40 NANOTESLAS/MAJOR DIVISION

NEW
54686
RPC
54613
CDS
55420
MCL
54622
SUB
52982
LOC
42892
TPA
427030000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 MAR 81 (DAY 81.079) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

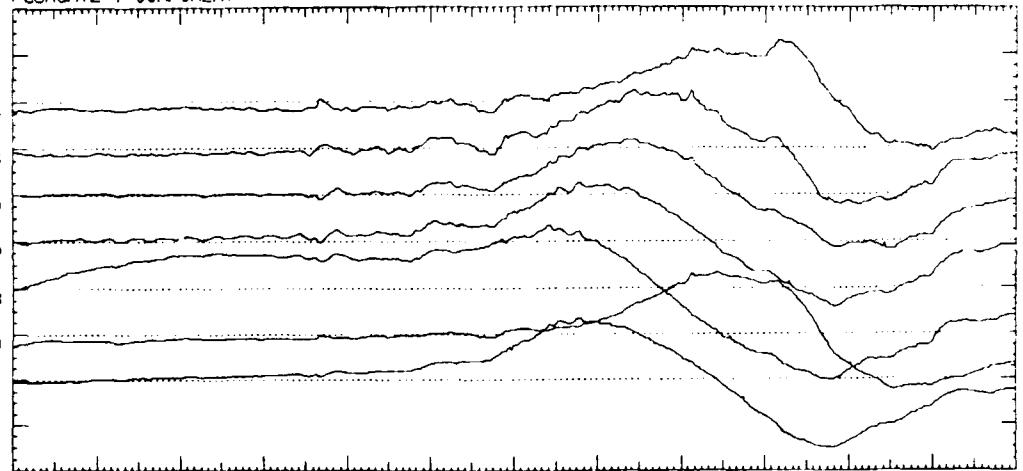
NEW 18100
RPC 18589
CDS 17122
MCL 18028
SUB 18669
LOC 25000
TPA 25410



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 185
RPC -15
CDS 50
MCL 40
SUB 198
LOC 29
TPA -4

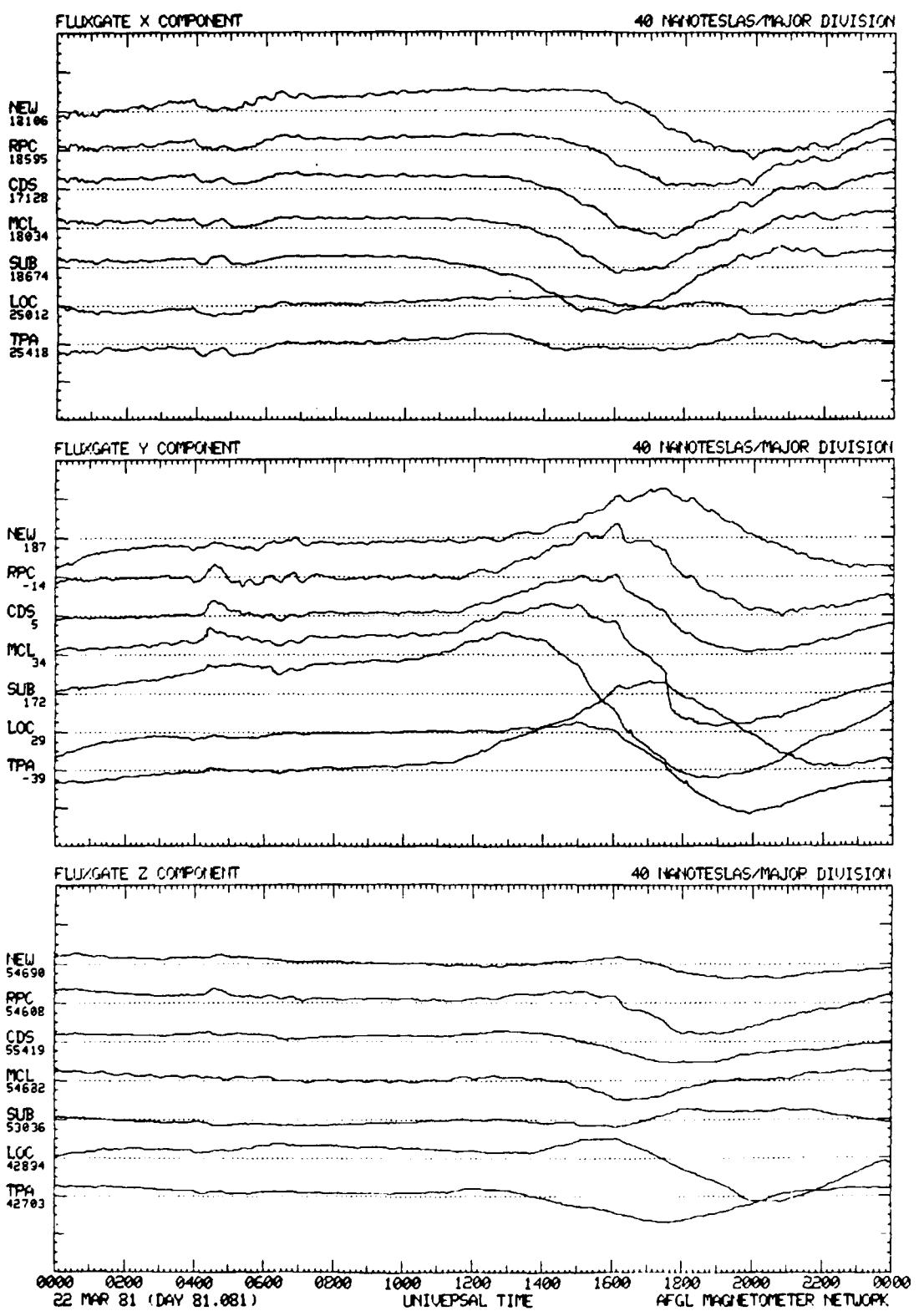


FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 54639
RPC 54615
CDS 55423
MCL 54624
SUB 53032
LOC 42891
TPA 42695

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 MAR 81 (DAY 21.000) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 18111
RPC 18605
CDS 17135
MCL 18039
SUB 18679
LOC 25018
TPA 25425

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

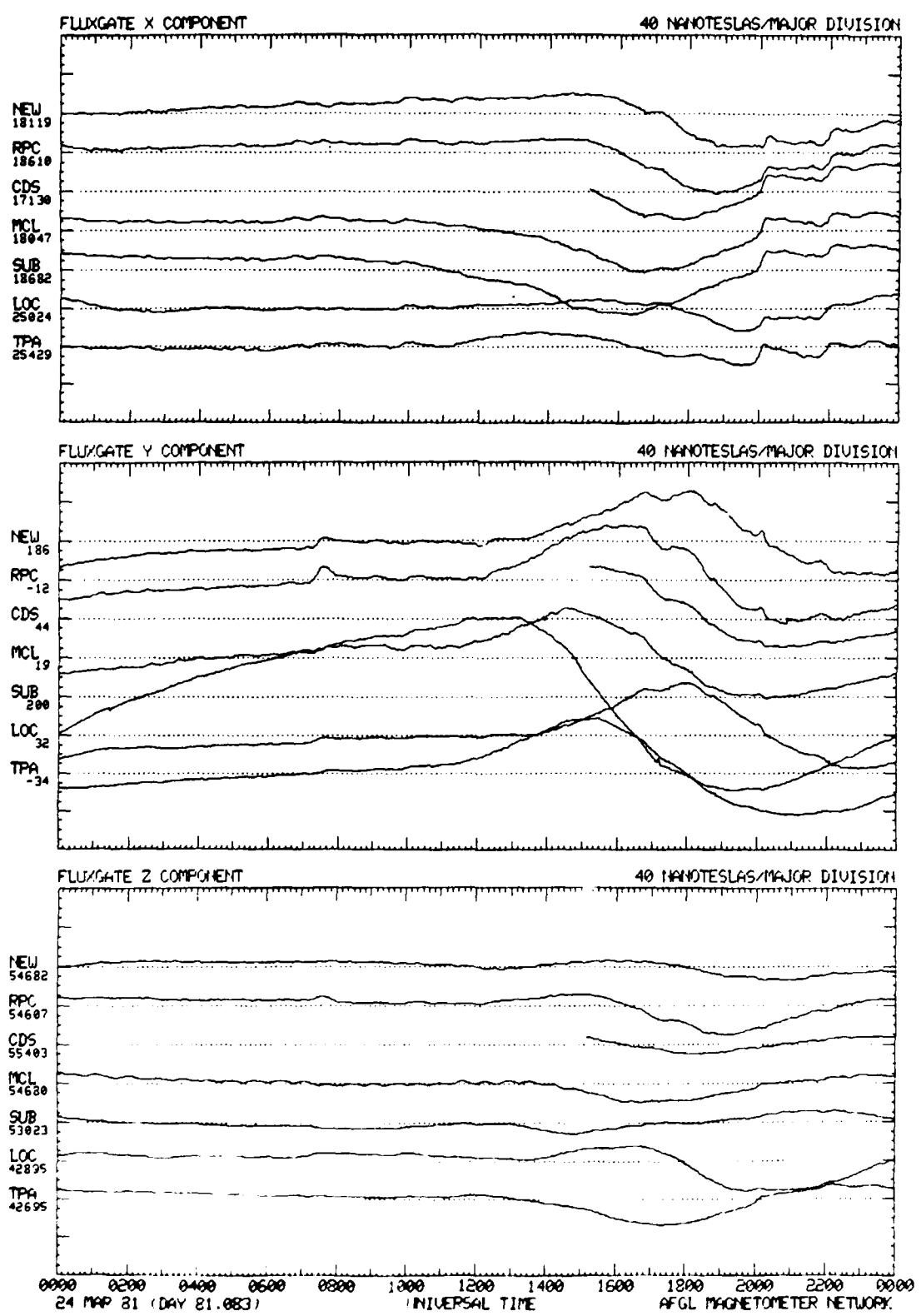
NEW 182
RPC -16
CDS 60
MCL 16
SUB 191
LOC 28
TPA -38

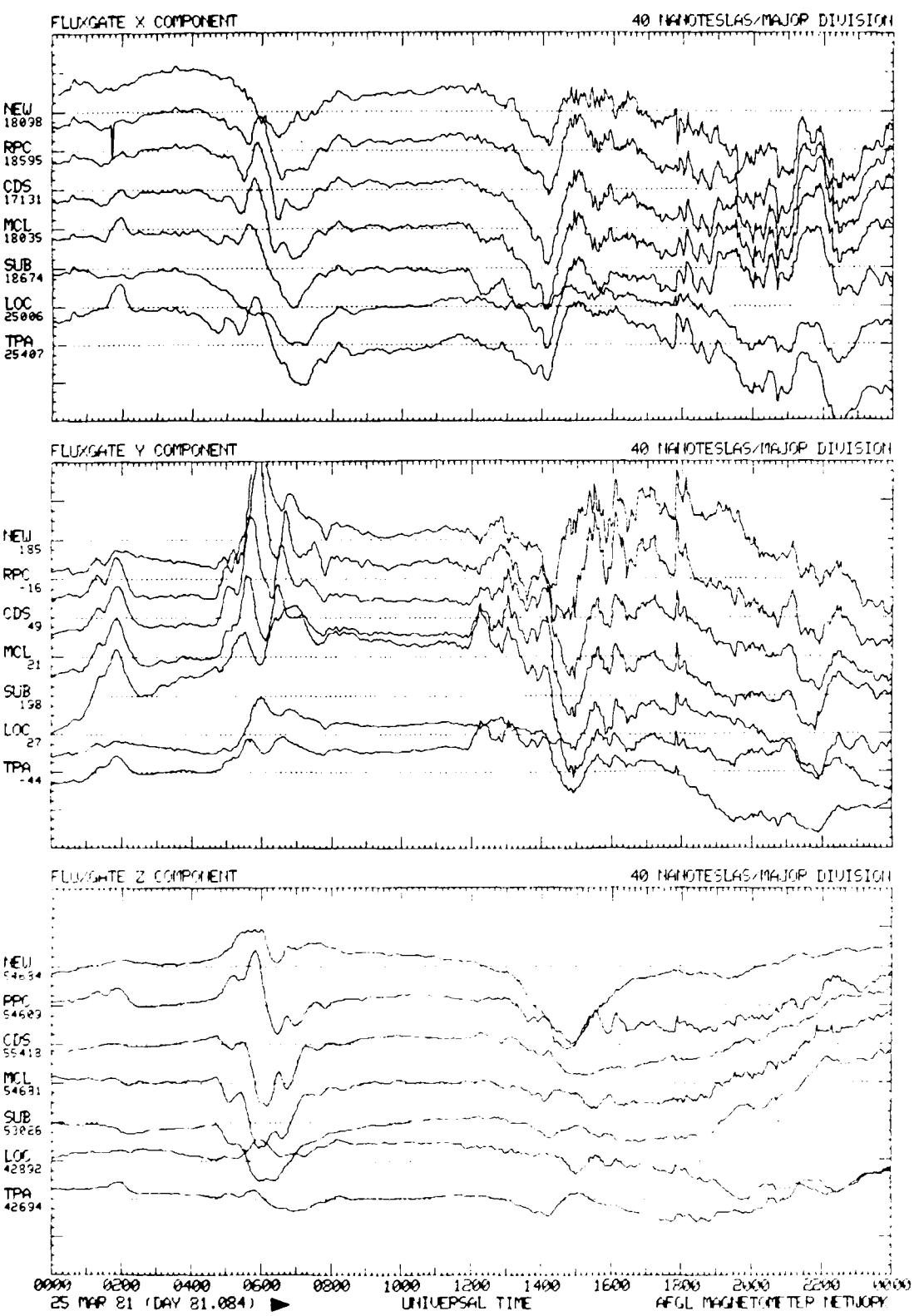
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 54630
RPC 54610
CDS 55420
MCL 54681
SUB 53024
LOC 42896
TPA 42703

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 MAR 81 (DAY 21.082) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





RD-R173 958

DAILY MAGNETograms FOR 1981 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(CU) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 28 FEB 85

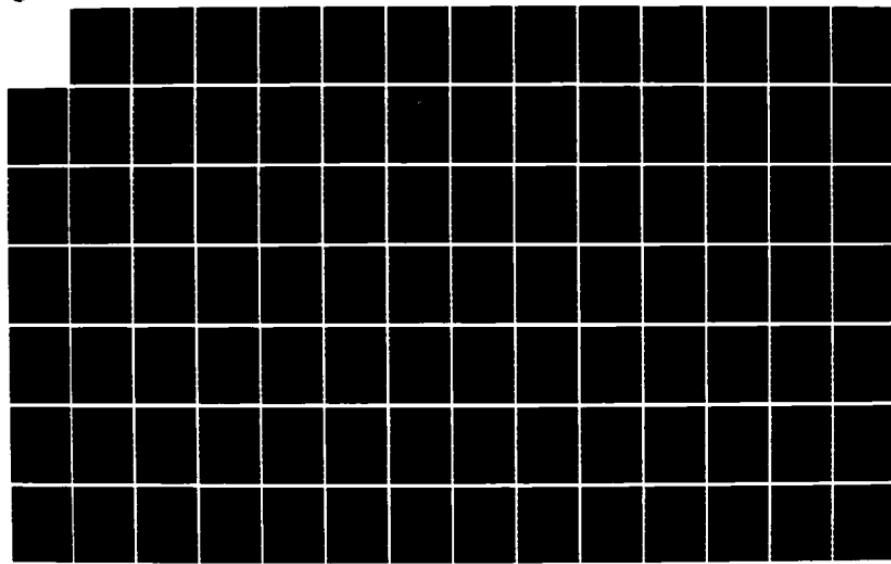
2/5

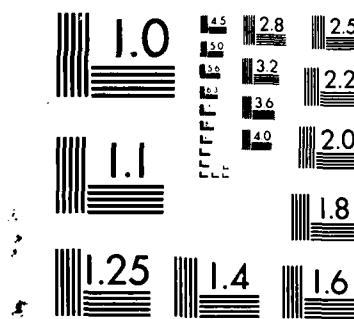
UNCLASSIFIED

AFGL-TR-85-0030

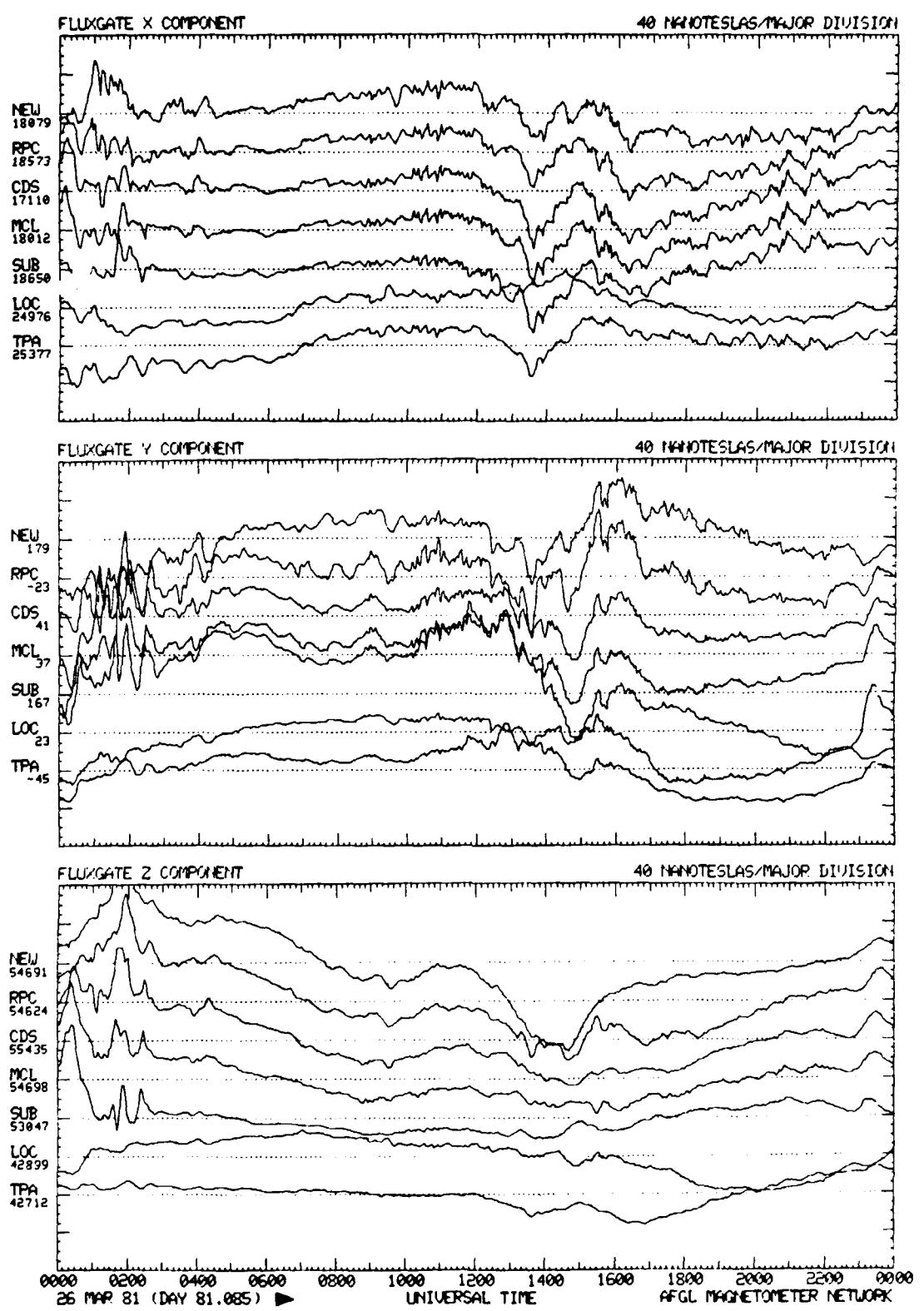
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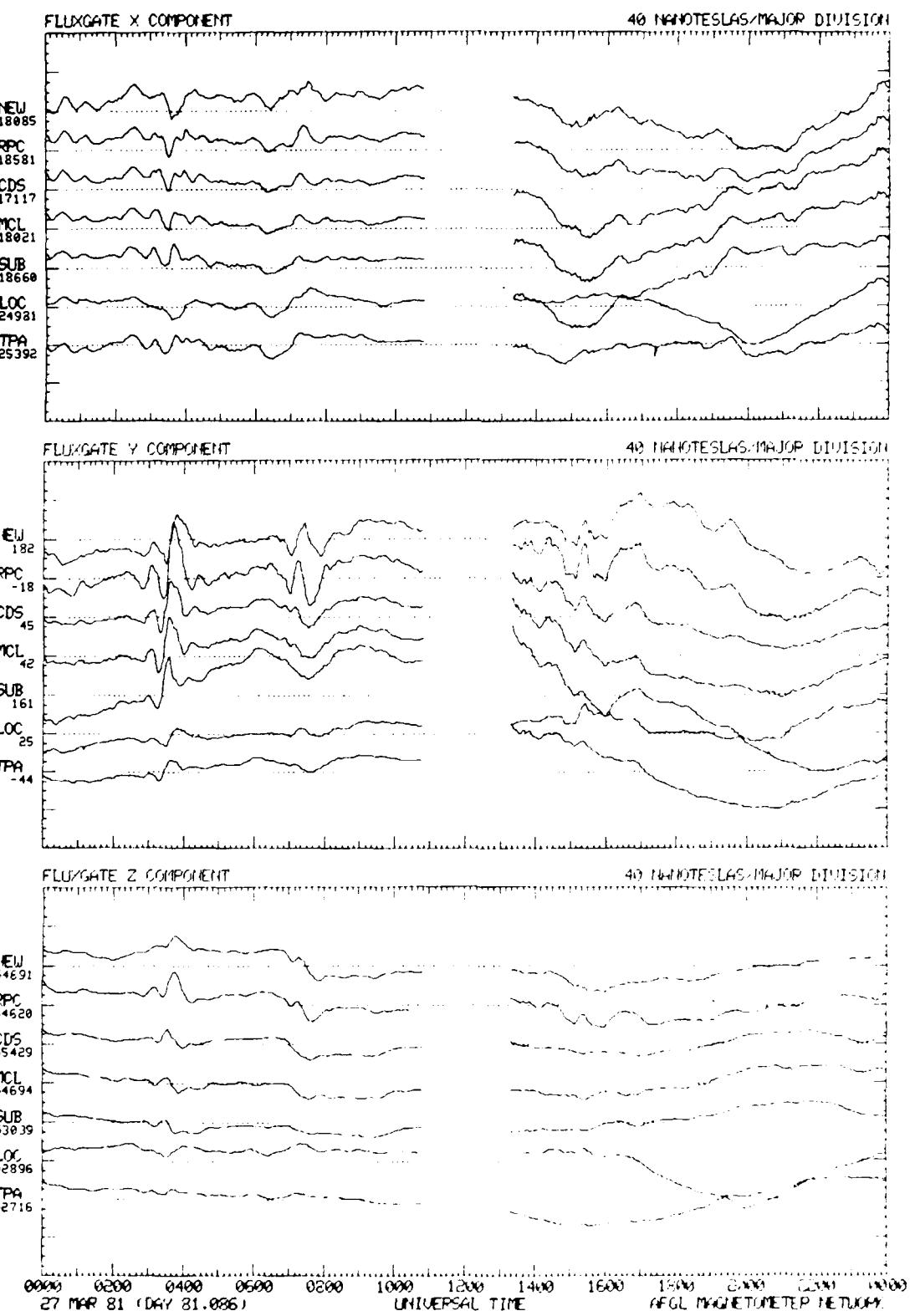
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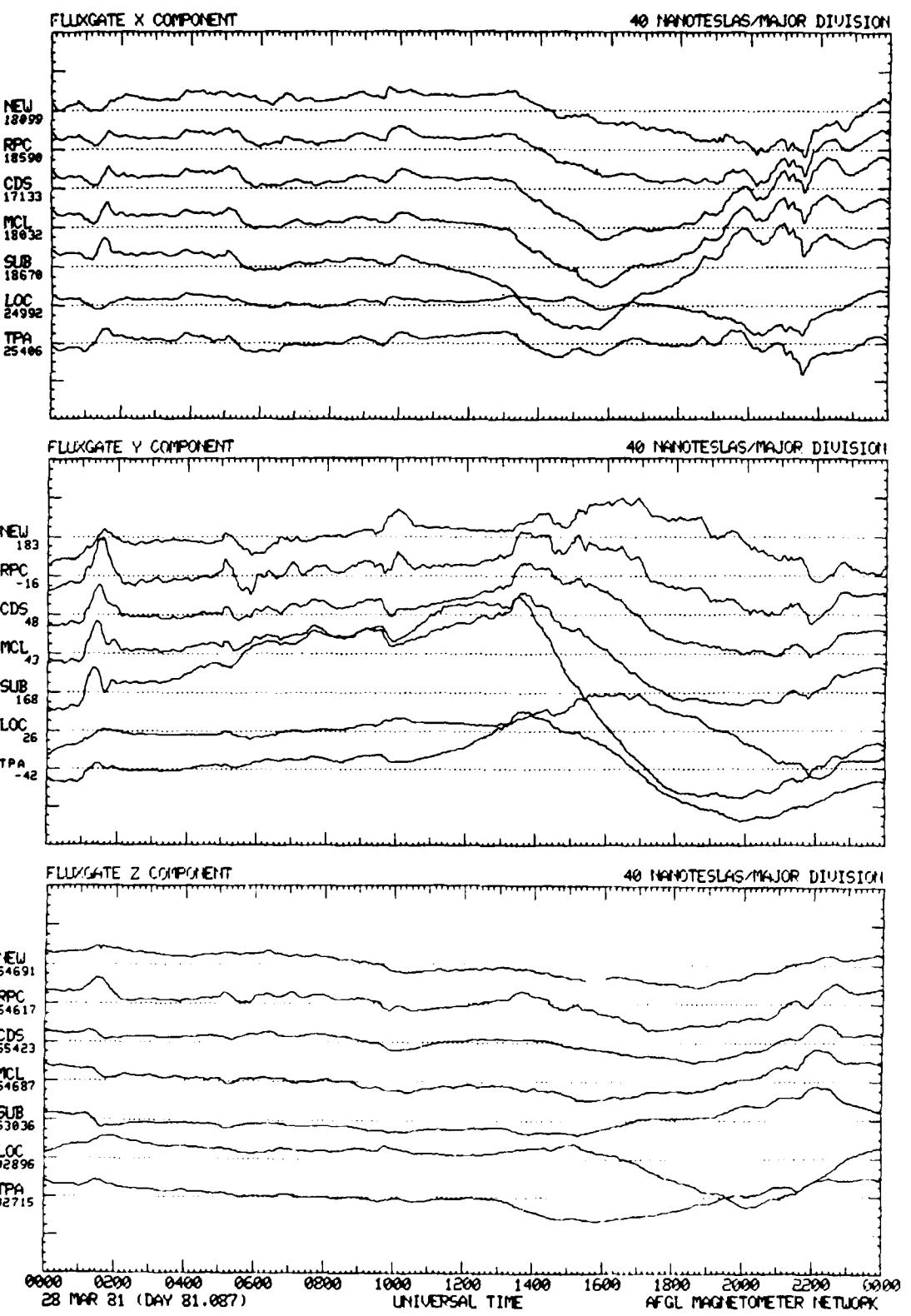


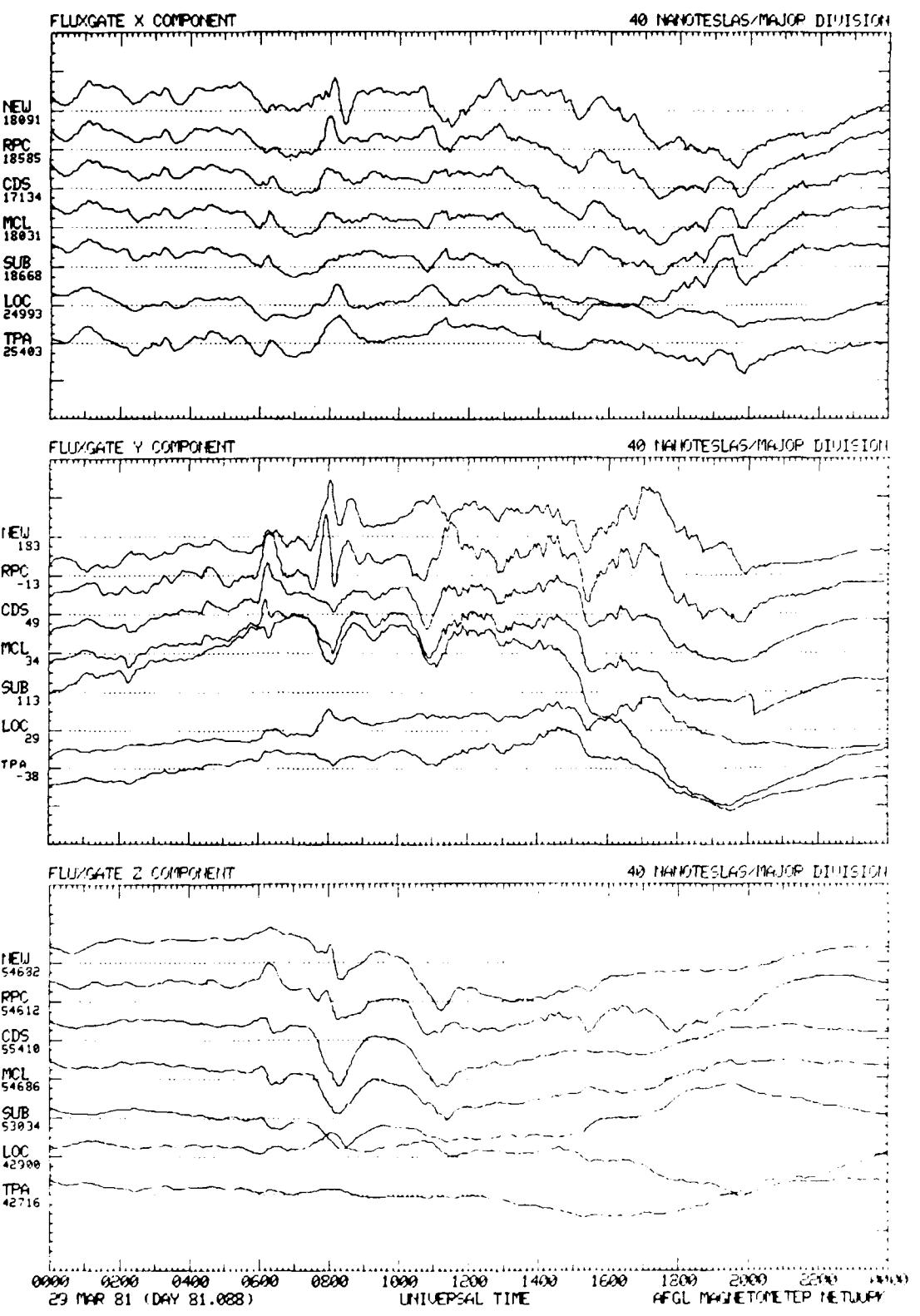


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A



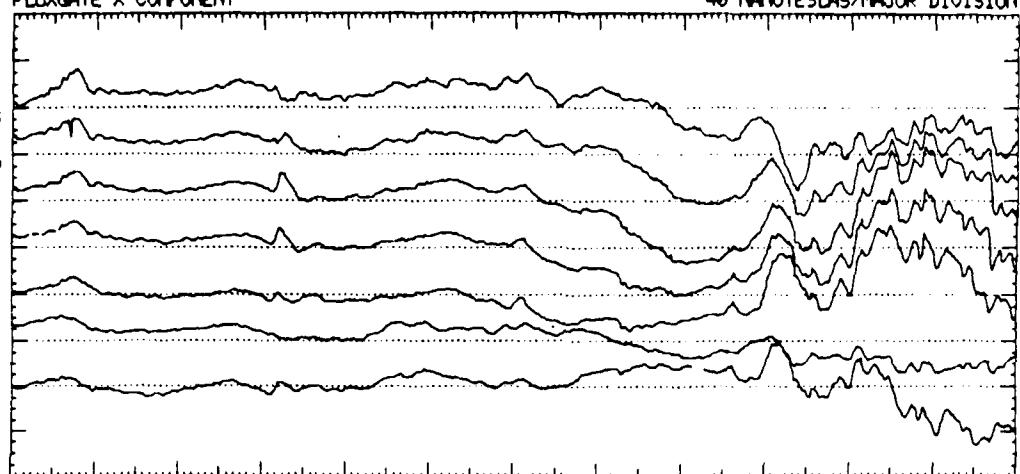






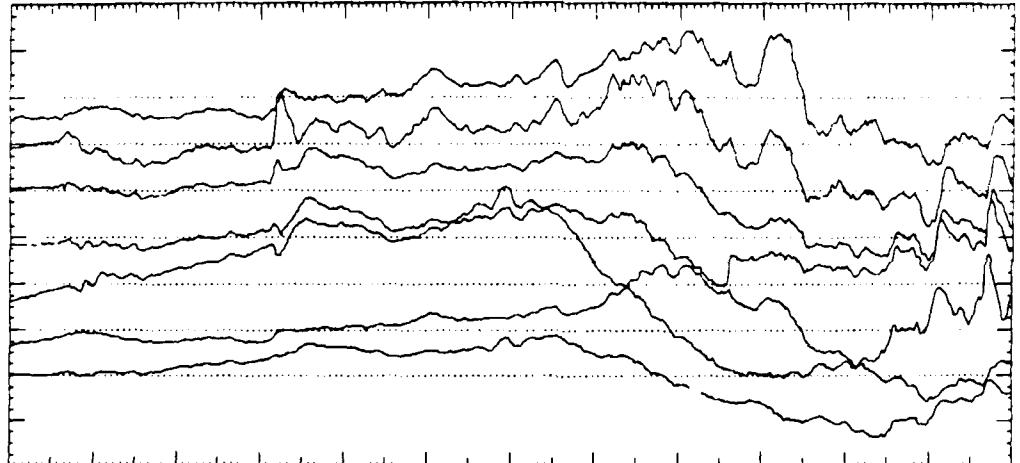
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18095
RPC
18590
CDS
17141
MCL
18041
SUB
18687
LOC
24984
TPA
25495

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
186
RPC
-15
CDS
42
MCL
14
SUB
78
LOC
28
TPA
-48

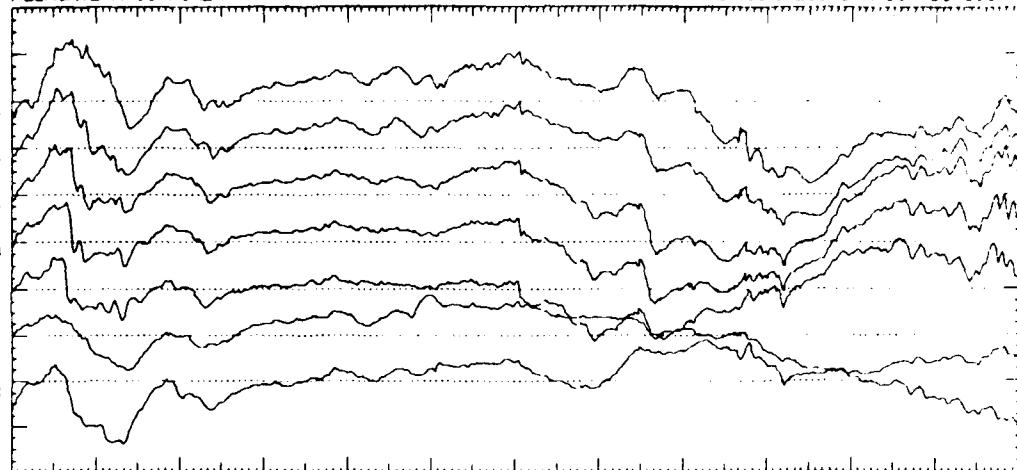
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54692
RPC
54620
CDS
55424
MCL
54695
SUB
53837
LOC
42894
TPA
427170000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
30 MAR 81 (DAY 81.089) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

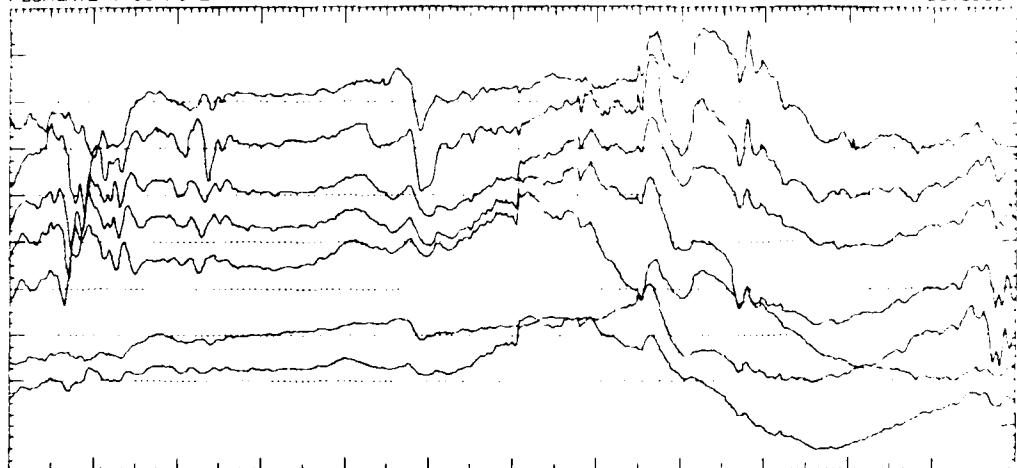
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18085
RPC
18574
CDS
17125
MCL
18023
SUB
18671
LOC
24971
TPA
25392

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

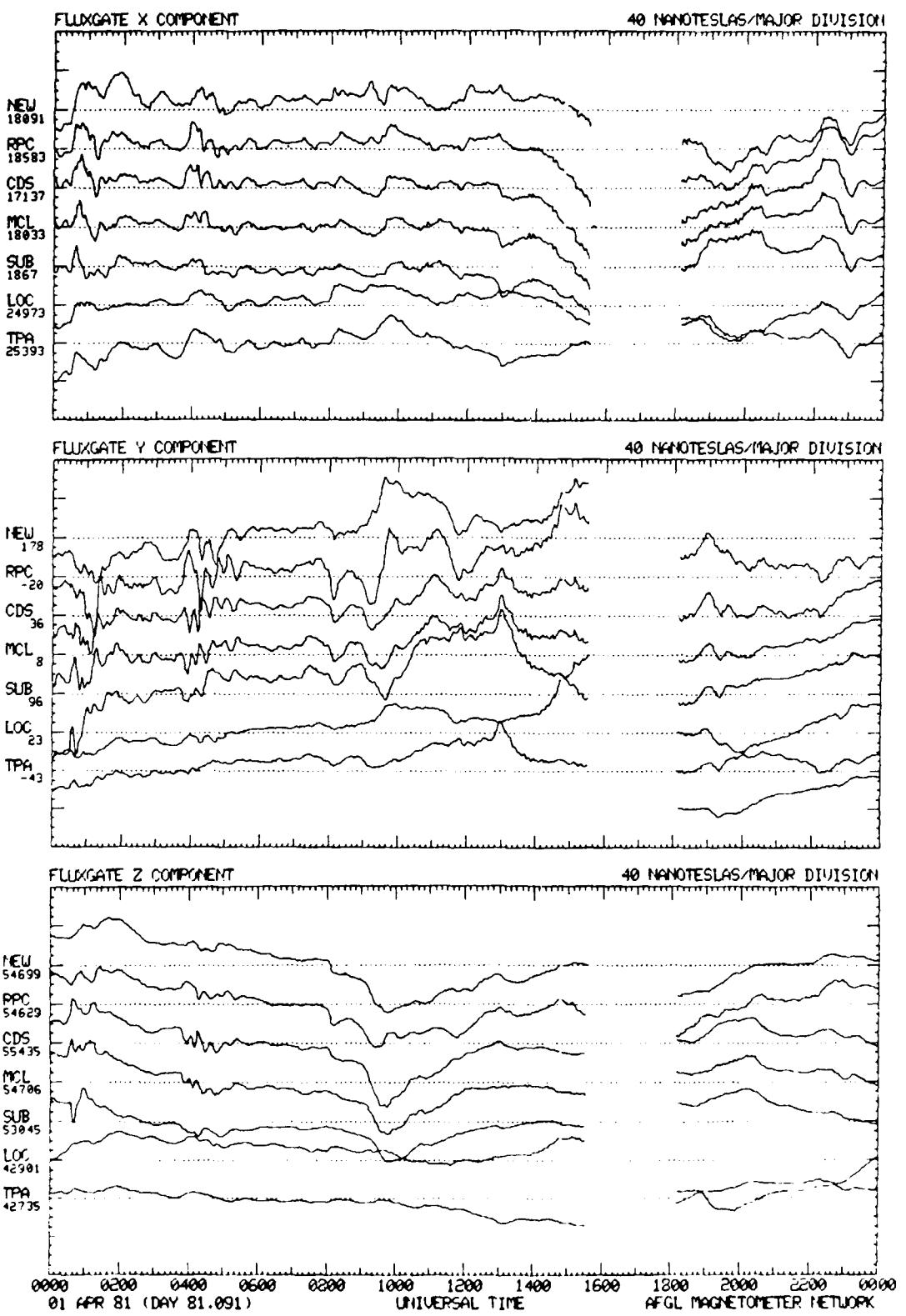
NEW
174
PPC
-23
CDS
39
MCL
28
SUB
69
LOC
23
TPA
-46

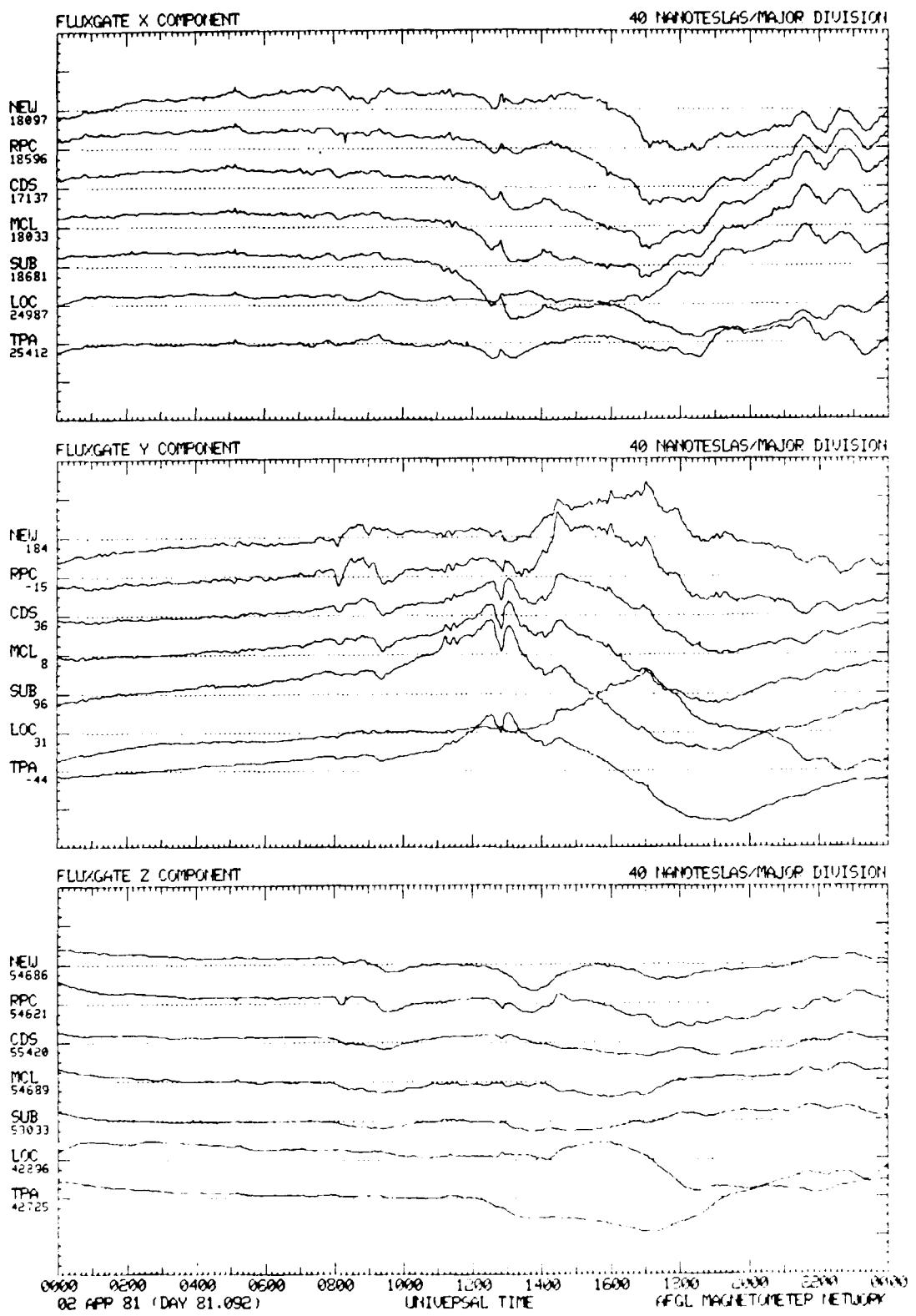
FLUXGATE Z COMPONENT

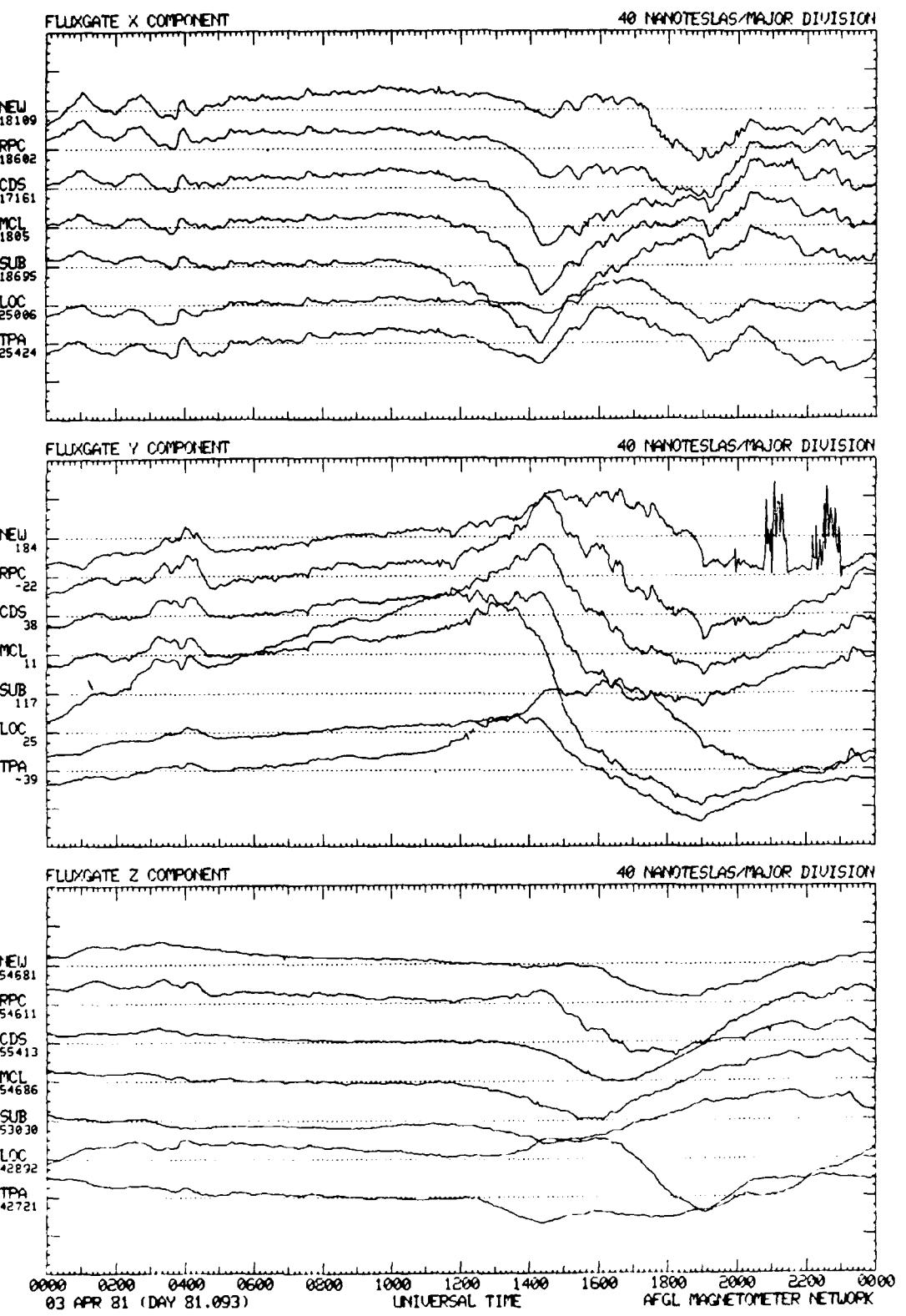
40 NANOTESLAS/MAJOR DIVISION

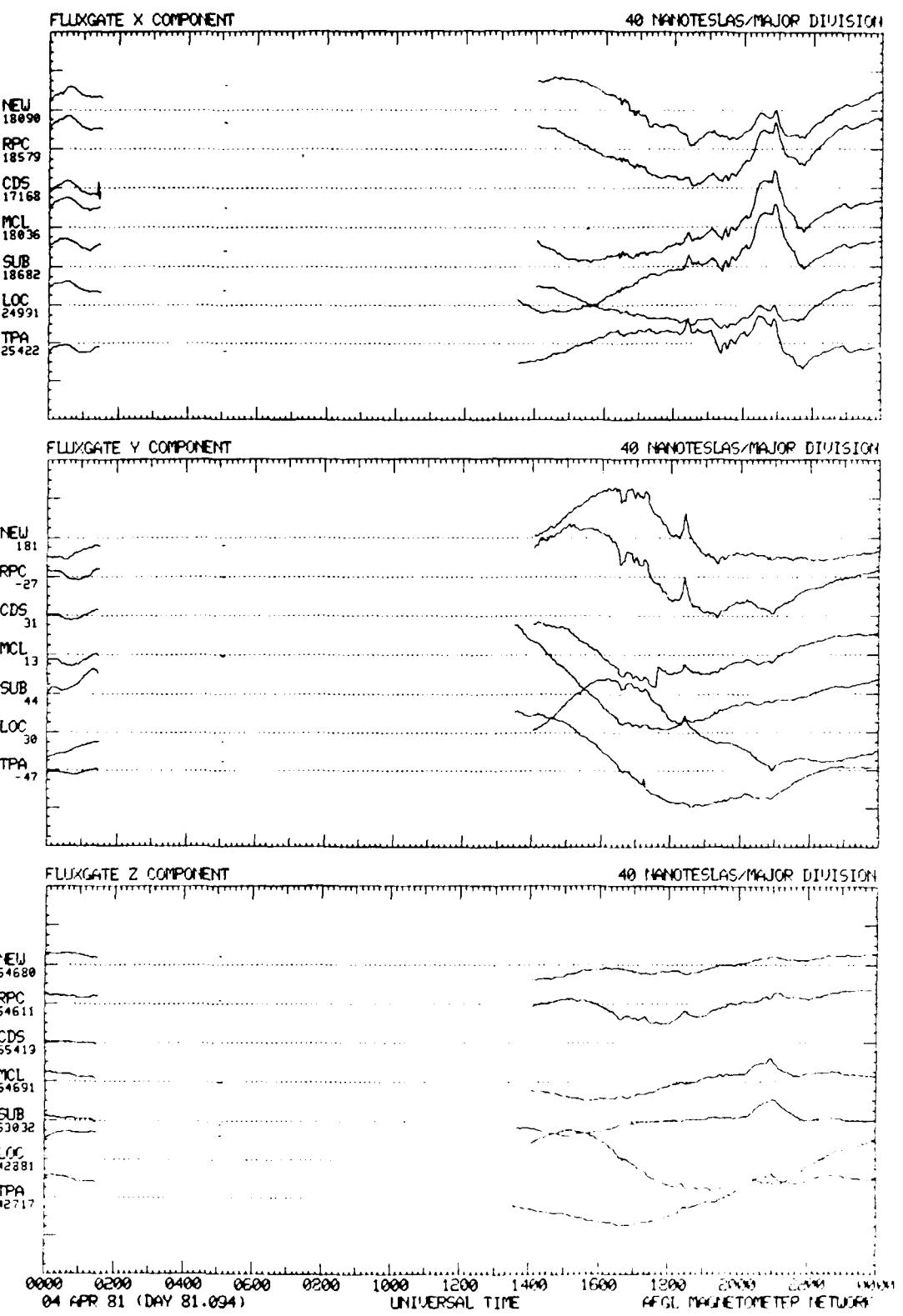
NEW
54700
PPC
54632
CDS
55440
MCL
54786
SUB
53045
LOC
42900
TPA
42725

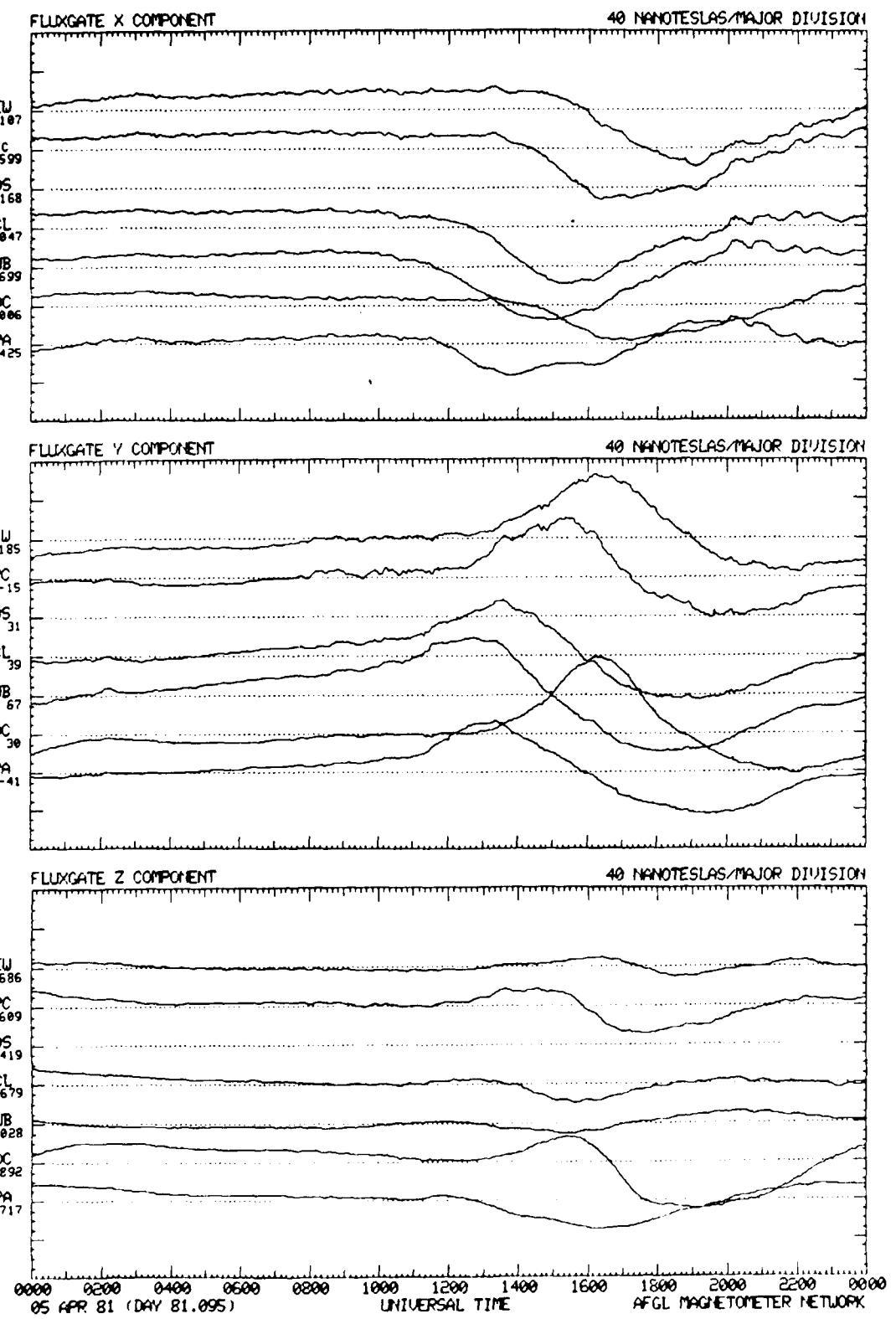
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31 MAR 81 (DAY 21.090) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







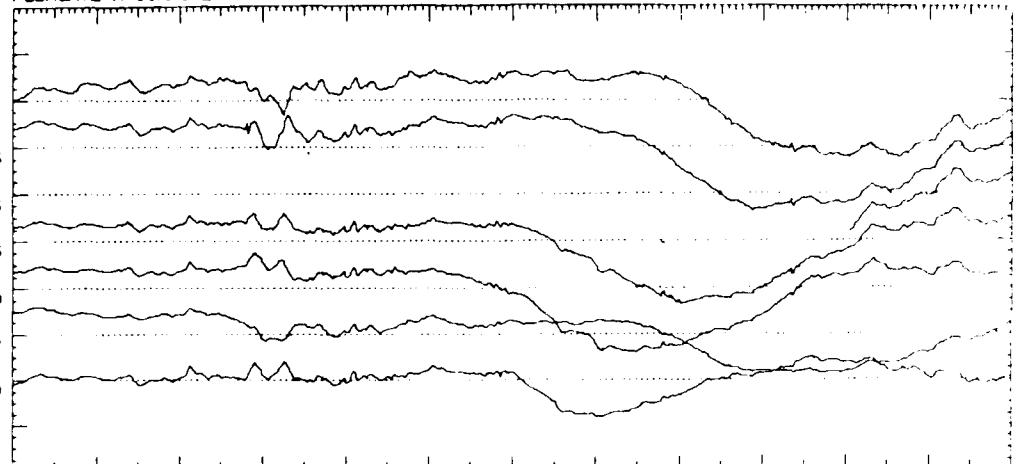




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

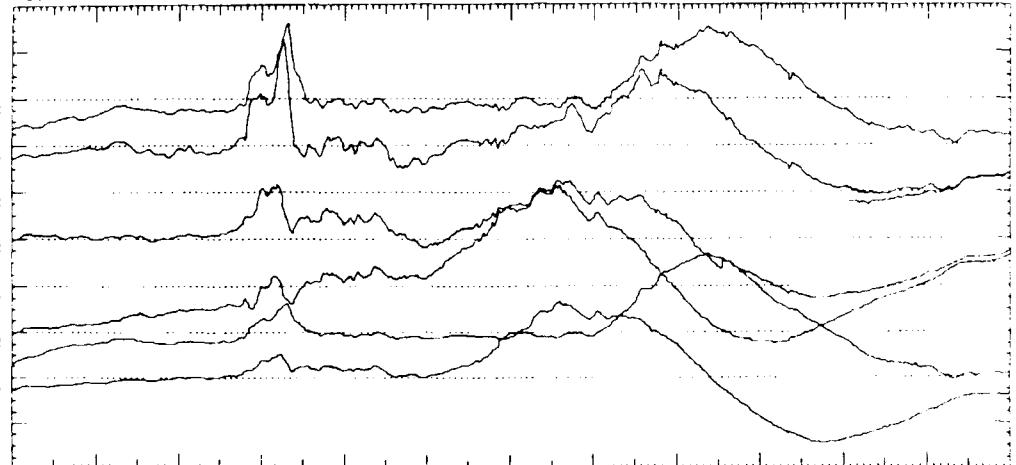
NEW 18111
RPC 18605
CDS 17156
MCL 18045
SUB 18700
LOC 25607
TPA 25430



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 188
RPC -13
CDS 8
MCL 38
SUB 104
LOC 32
TPA -35

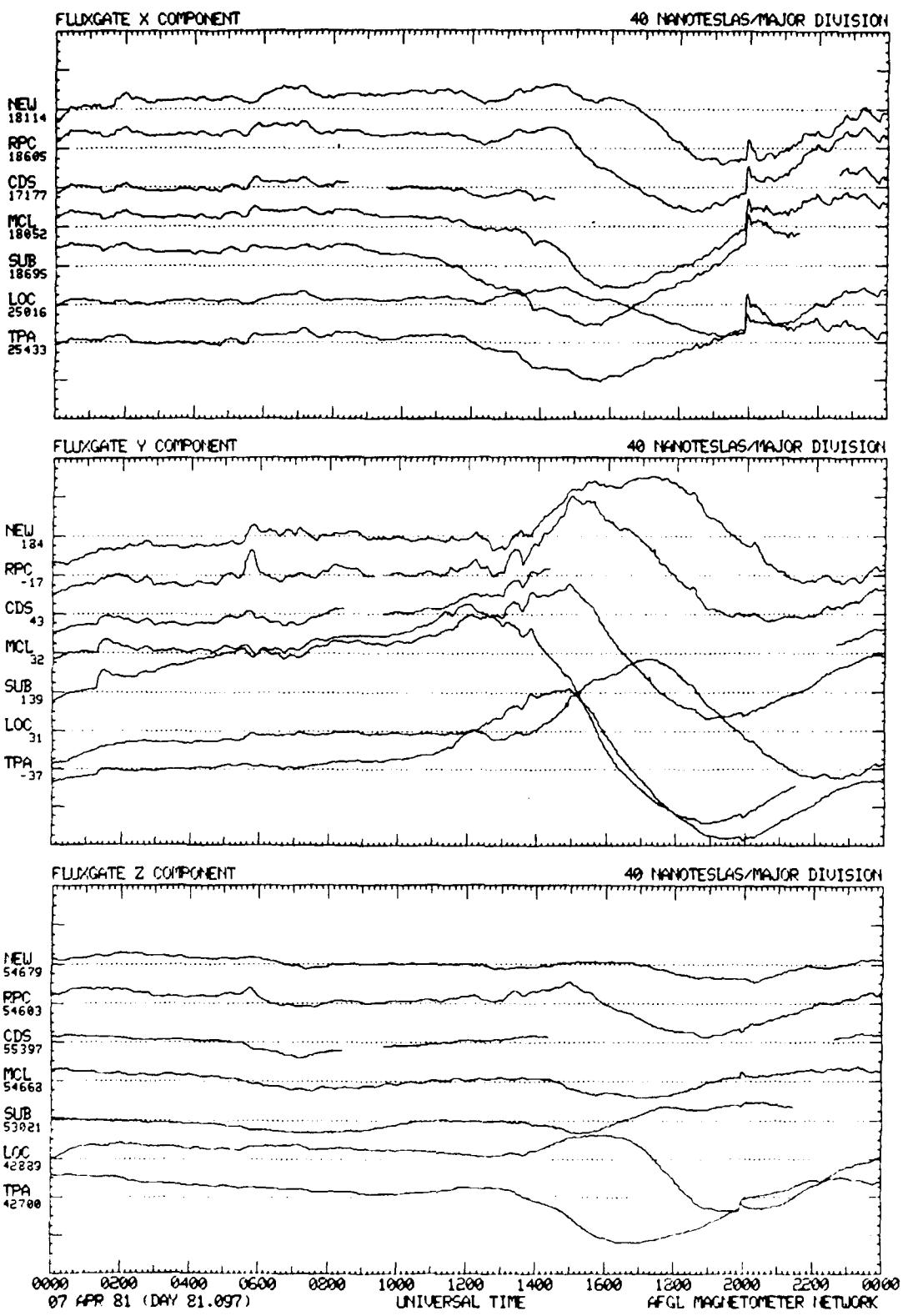


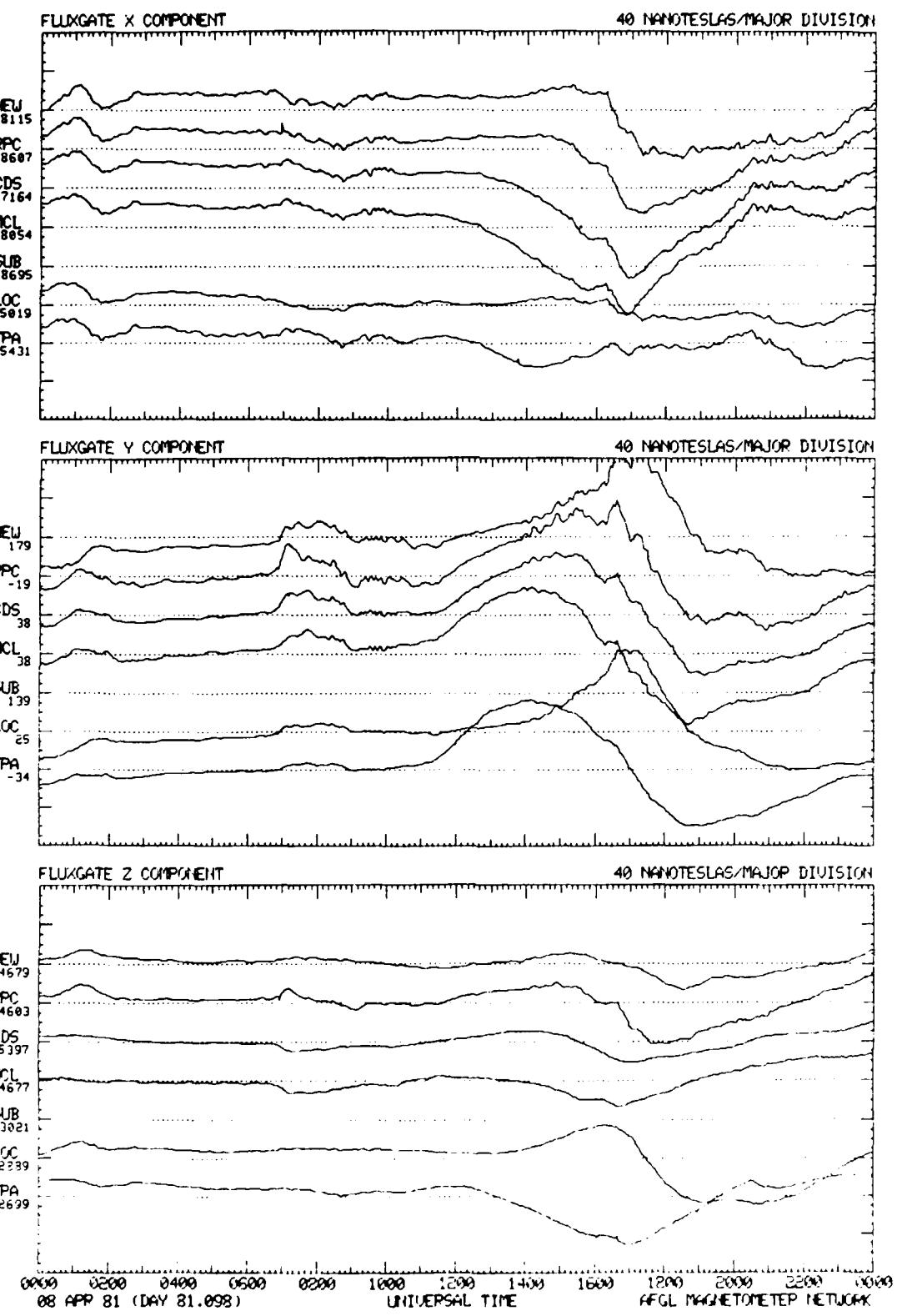
FLUXGATE Z COMPONENT

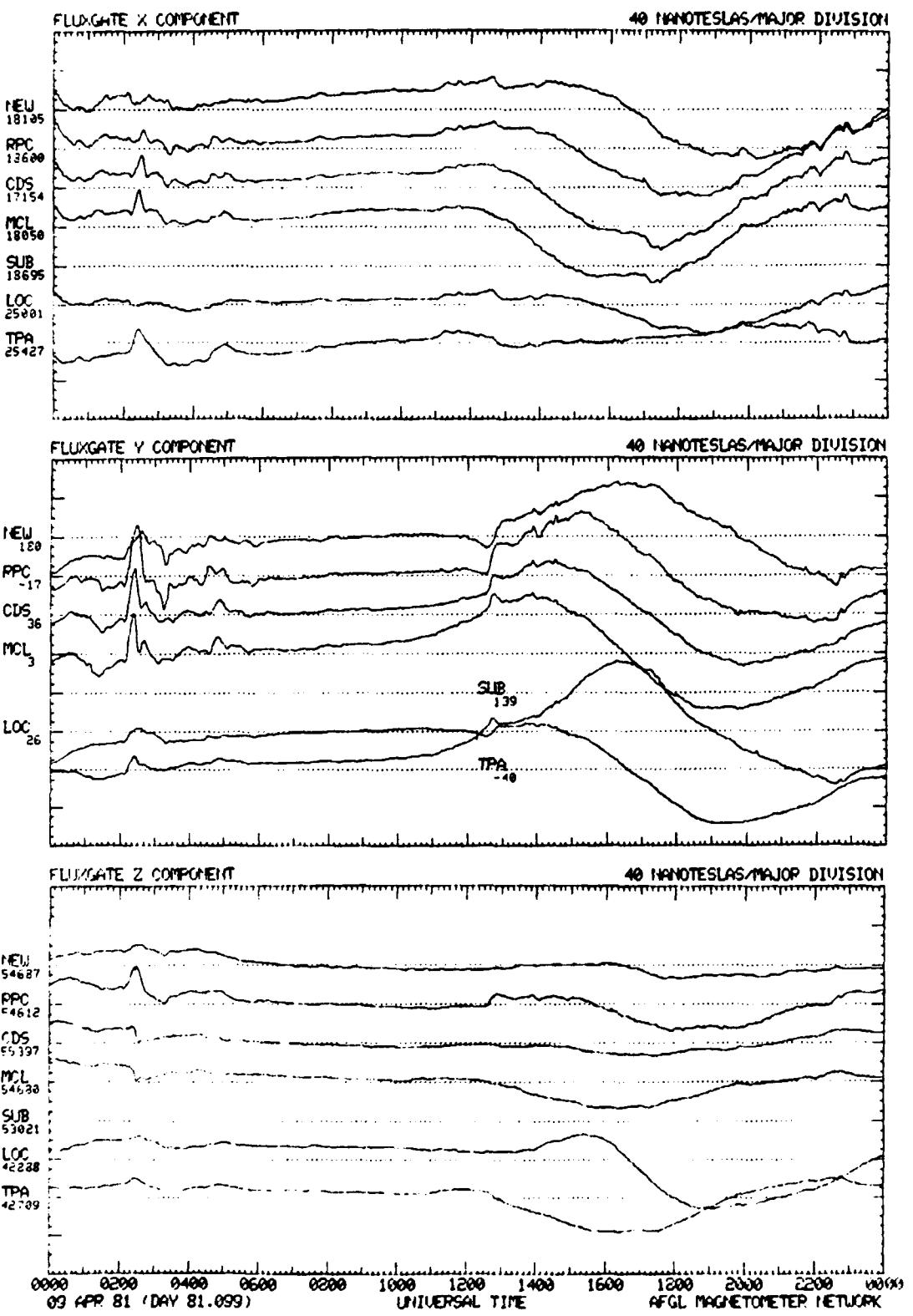
40 NANOTESLAS/MAJOR DIVISION

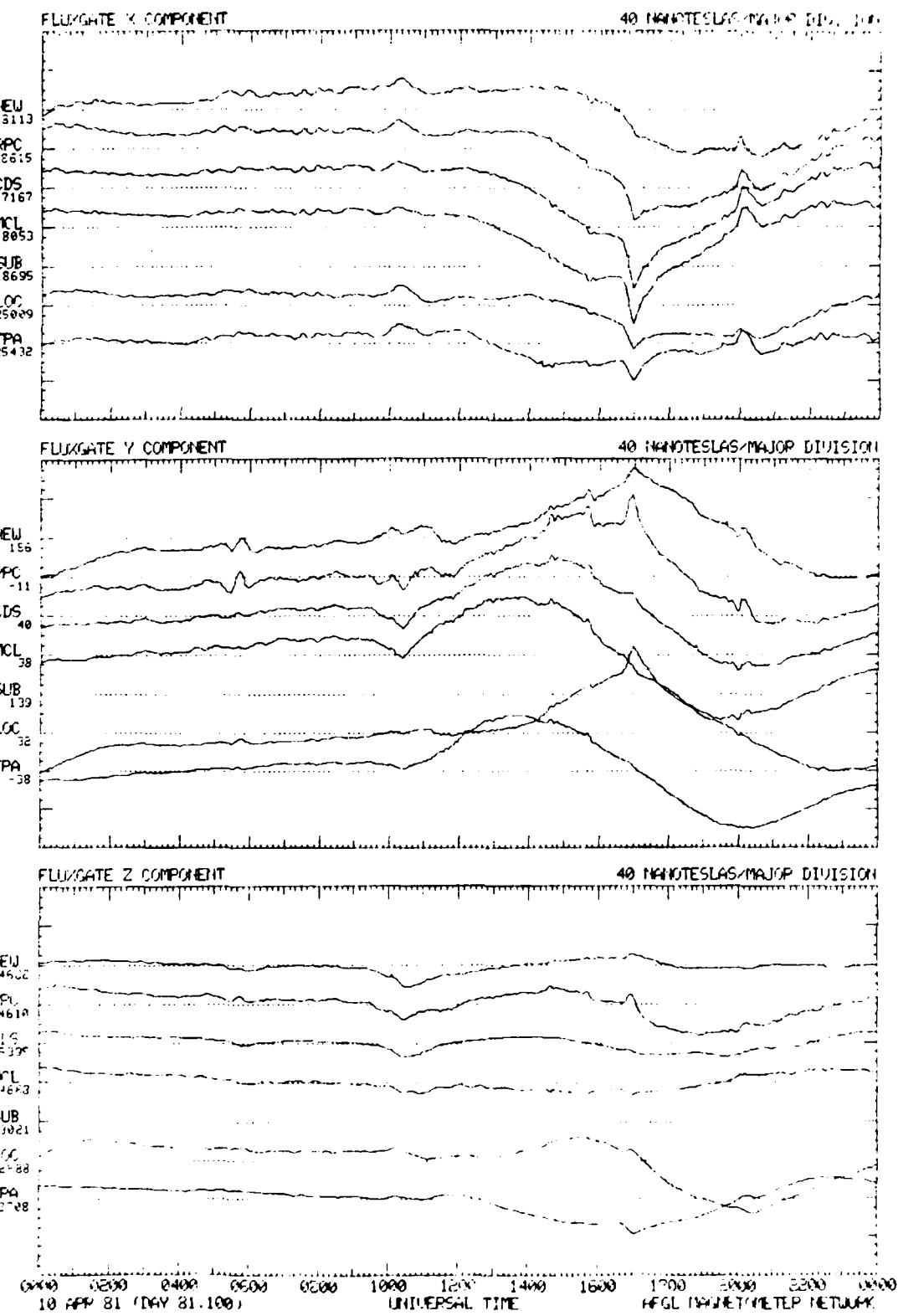
NEW 54622
RPC 54611
CDS 55399
MCL 54668
SUB 53818
LOC 4229
TPA 42712

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200
06 APR 81 (DAY 81.096) UNIVERSAL TIME 481 MAGNETOMETER NET DUM









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

EN 18112
PPC 17000
CDS 17182
MCL 18270
SUB 18695
LOC 25911
TPA 26271

FLUXGATE Y COMPONENT

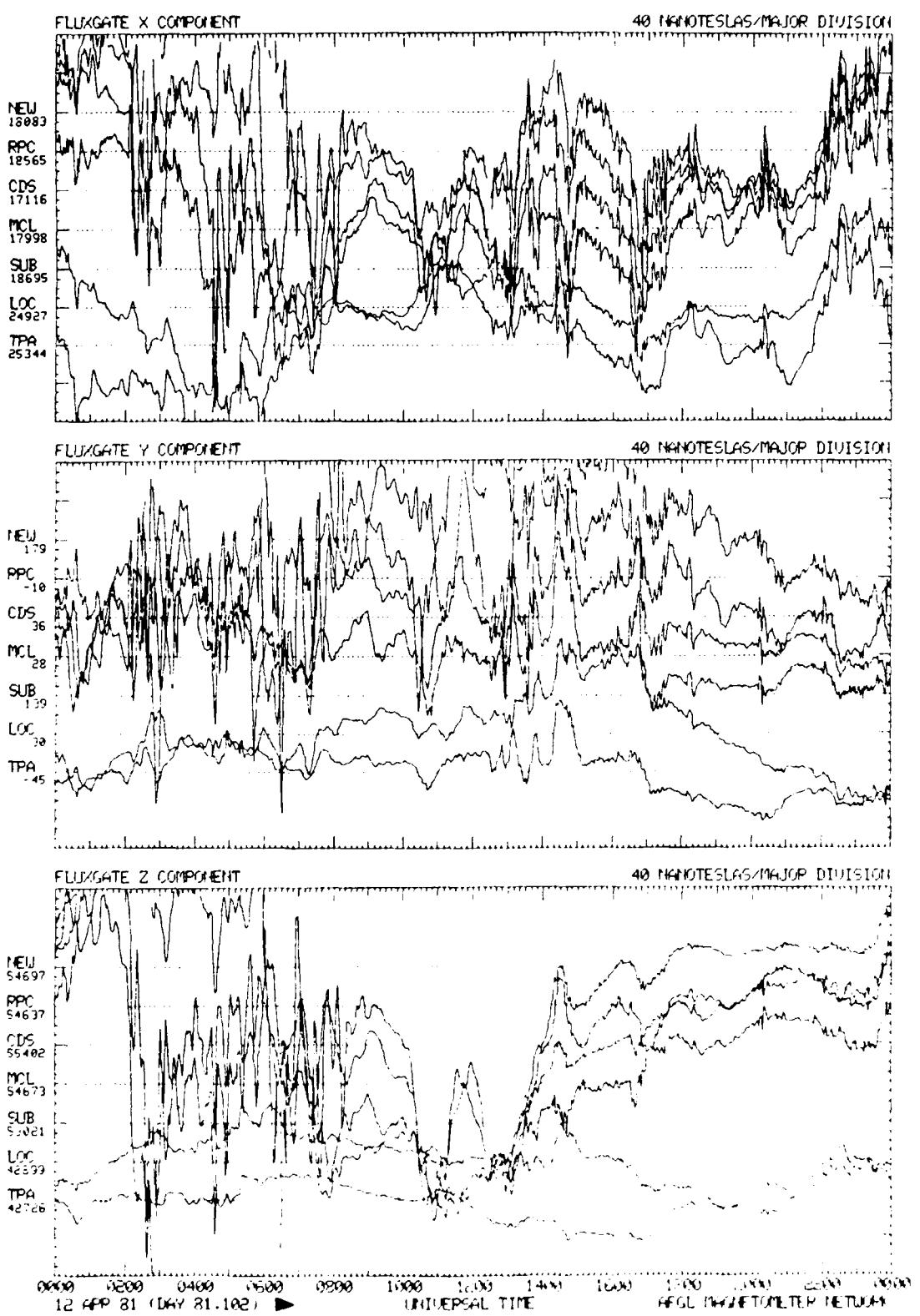
40 NANOTESLAS/MAJOR DIVISION

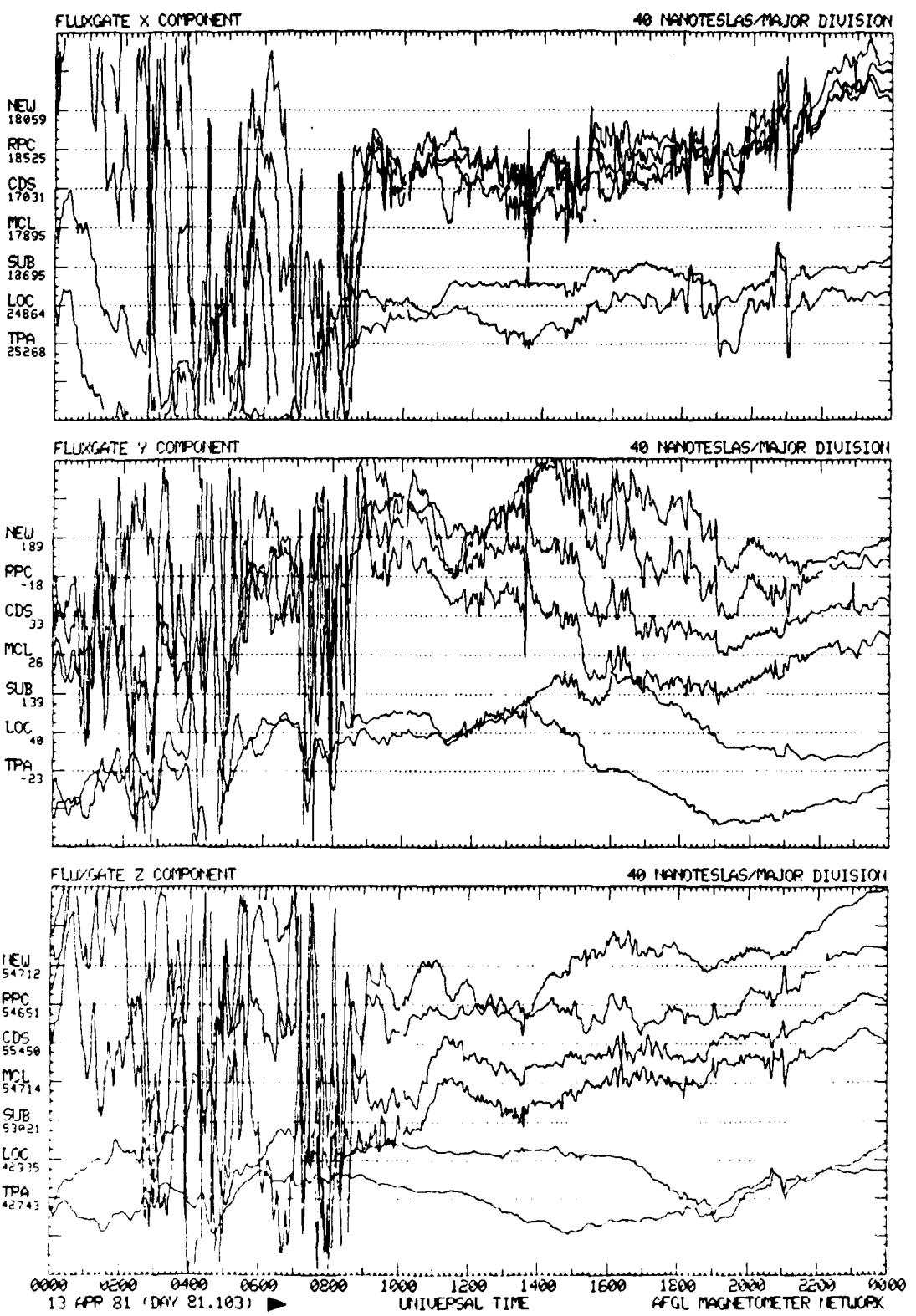
EN 181
PPC 19
CDS 33
MCL 30
SUB 133
LOC 23
TPA 43

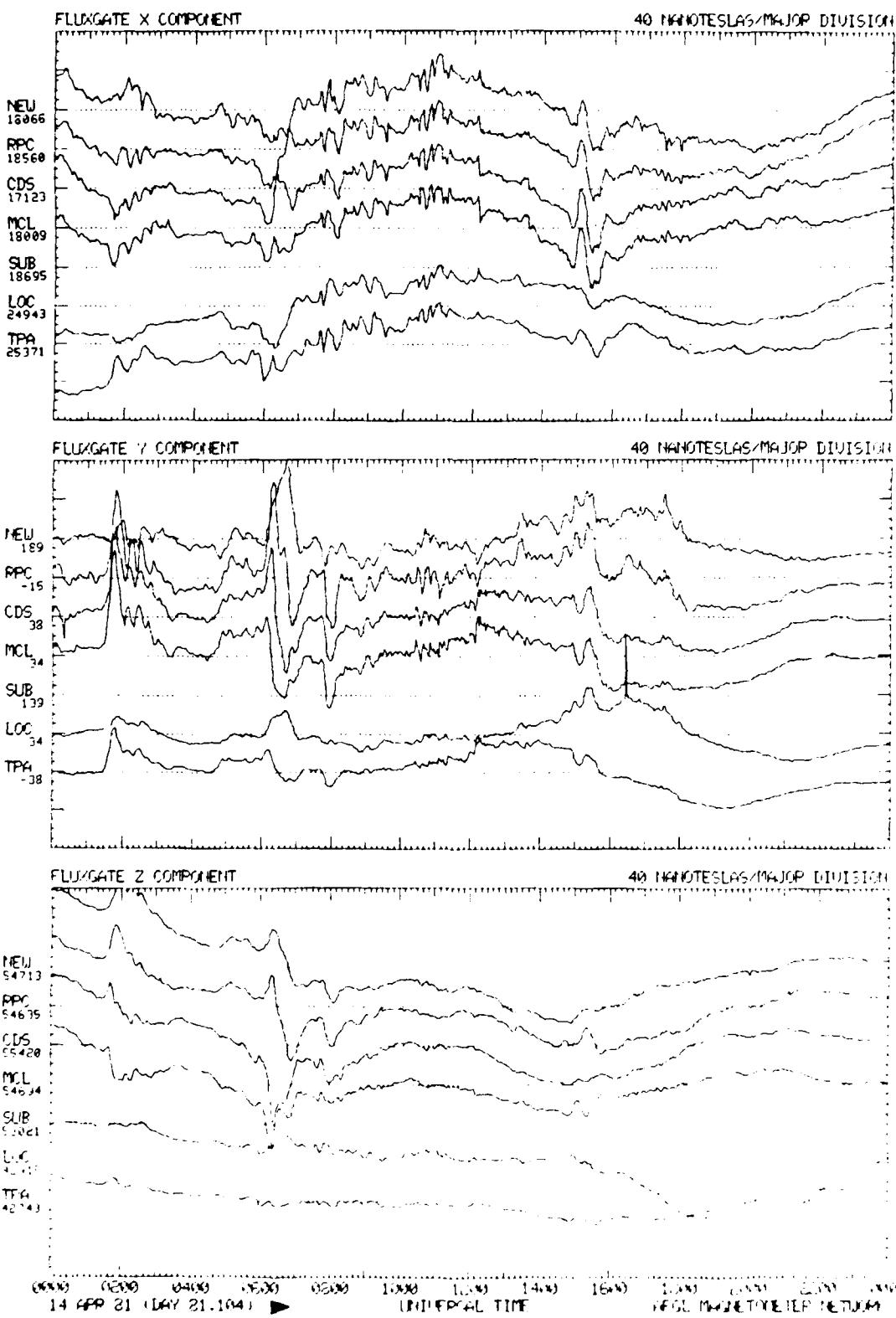
FLUXGATE Z COMPONENT

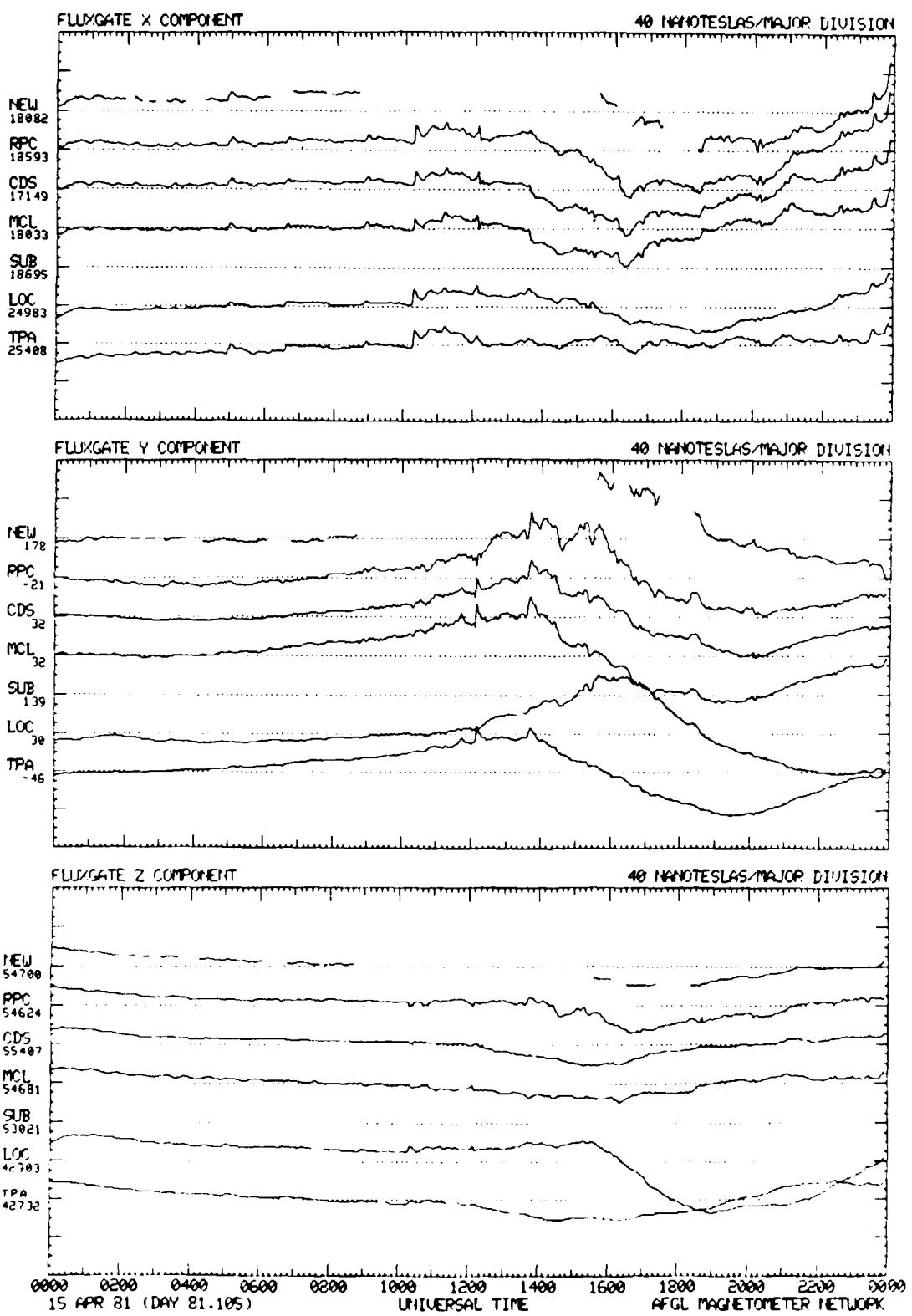
40 NANOTESLAS/MAJOR DIVISION

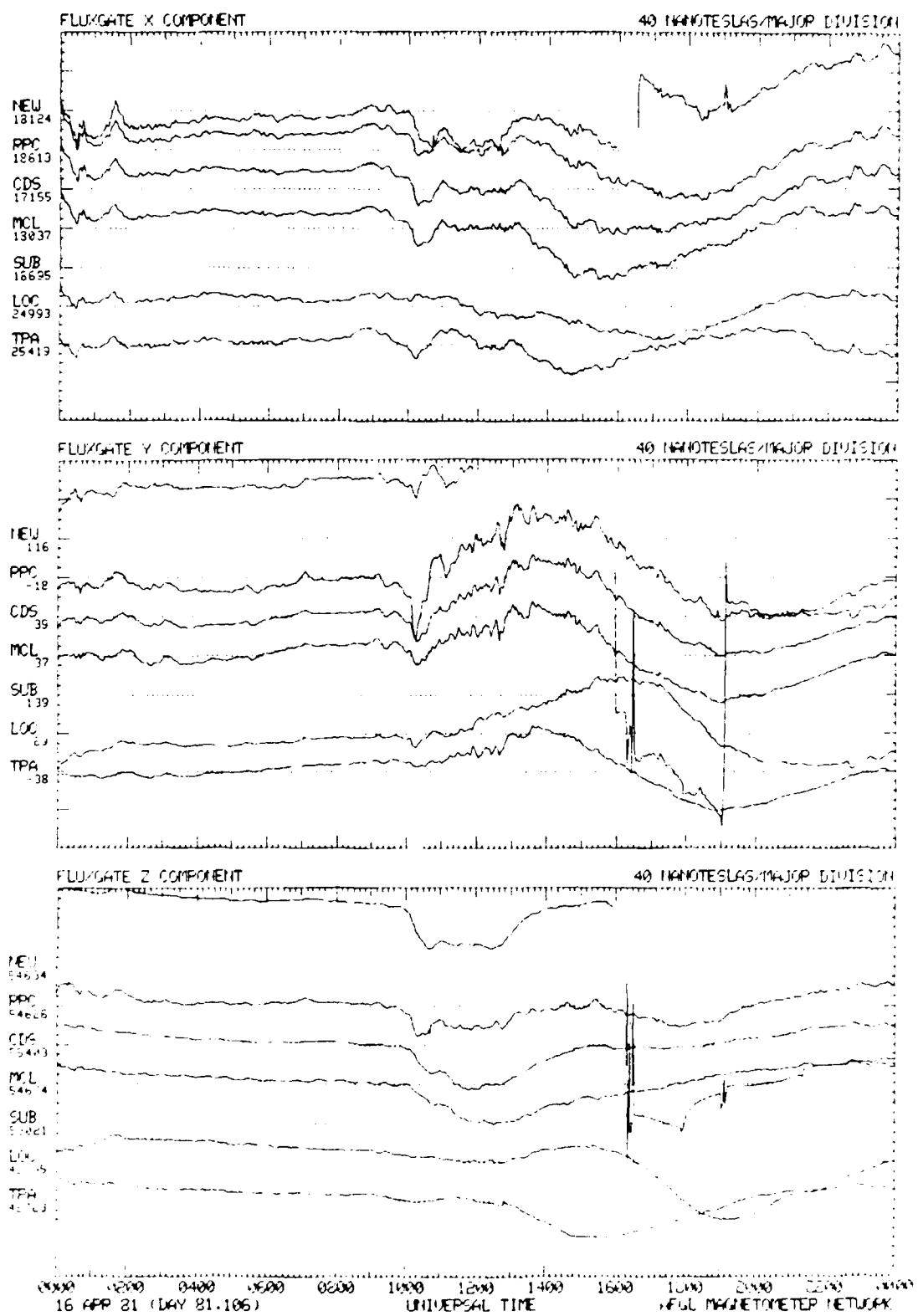
EN 18647
PPC 18513
CDS 15512
MCL 14673
SUB 1771
LOC 1771
TPA 427111000 1800 2600 3400 4200 5000 10000 12000 14000 16000 18000 20000 22000 30000
11 APR 81 (DAY 91.101) ► UNIVERSAL TIME 40 GL MAGNETOMETER NETWORK

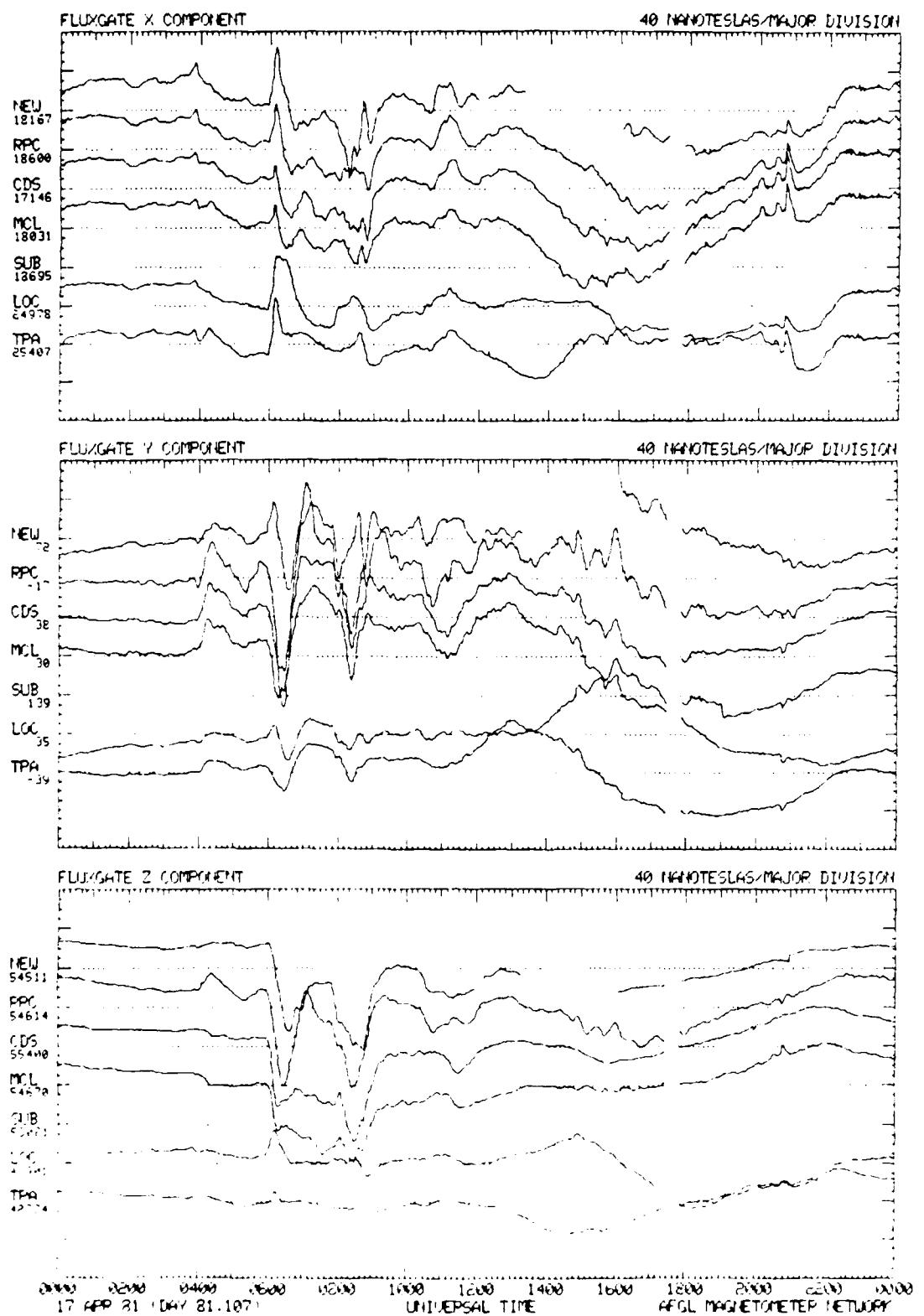












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 13191
RPC 18619
CDS 17171
MCL 1805
SUB 18695
LOC 25004
TPA 25430

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 58
RPC -28
CDS 32
MCL 6
SUB 132
LOC 25
TPA -38

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW 54515
RPC 54618
CDS 55415
MCL 54680
SUB 54681
LOC 54872
TPA 46284

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000
13 APR 81 (DAY 81.102)

UNIVERSAL TIME

IGI. MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18226
RPC
18666
CDS
17217
MCL
18986
SUB
18695
LOC
25932
TPA
25444

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
23
RPC
-48
CDS
22
MCL
SUB
139
LOC
-12
TPA
-50

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

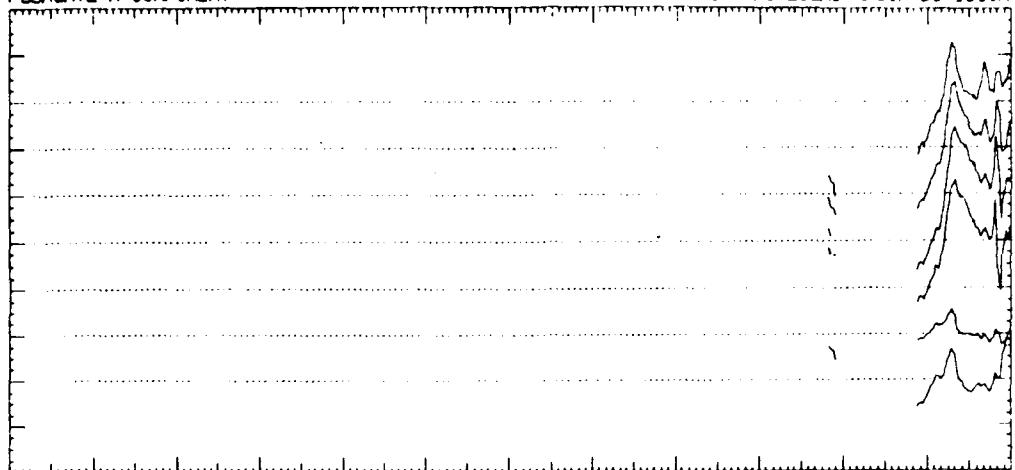
NEW
54517
RPC
54630
CDS
55420
MCL
54689
SUB
53021
LOC
42899
TPA
42741

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 APR 81 (DAY 81.109) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

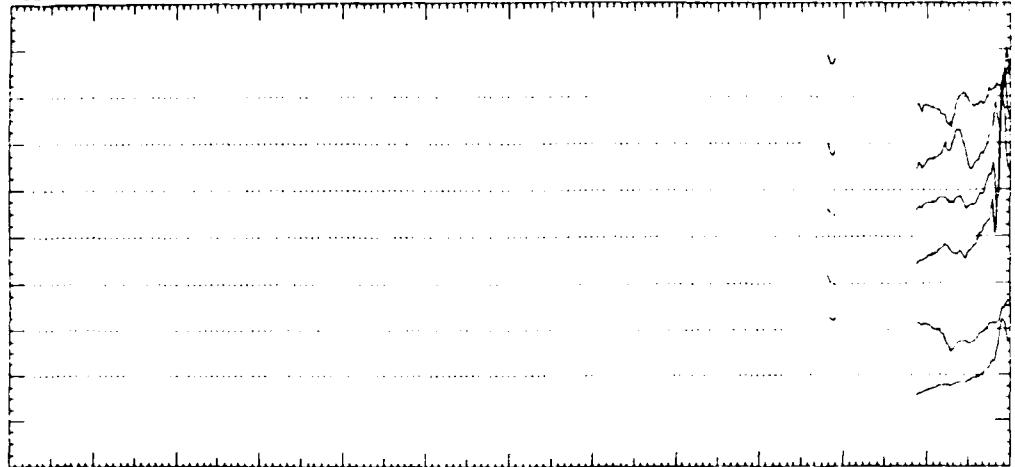
NEW
18199
RPC
18622
CDS
17196
MCL
18058
SUB
18695
LOC
24965
TPA
25372



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
22
RPC
-42
CDS
11
MCL
20
SUB
139
LOC
-13
TPA
-50

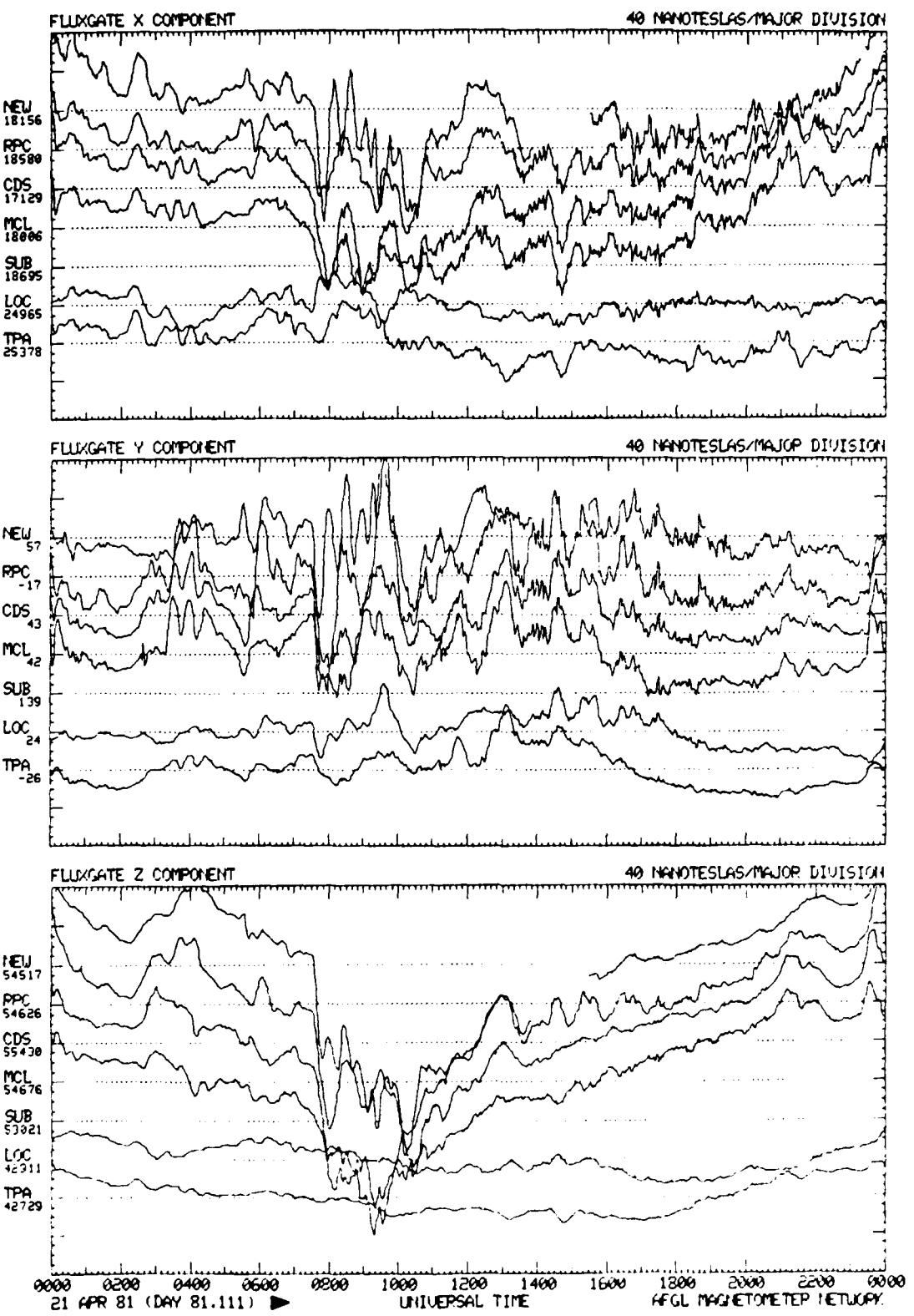


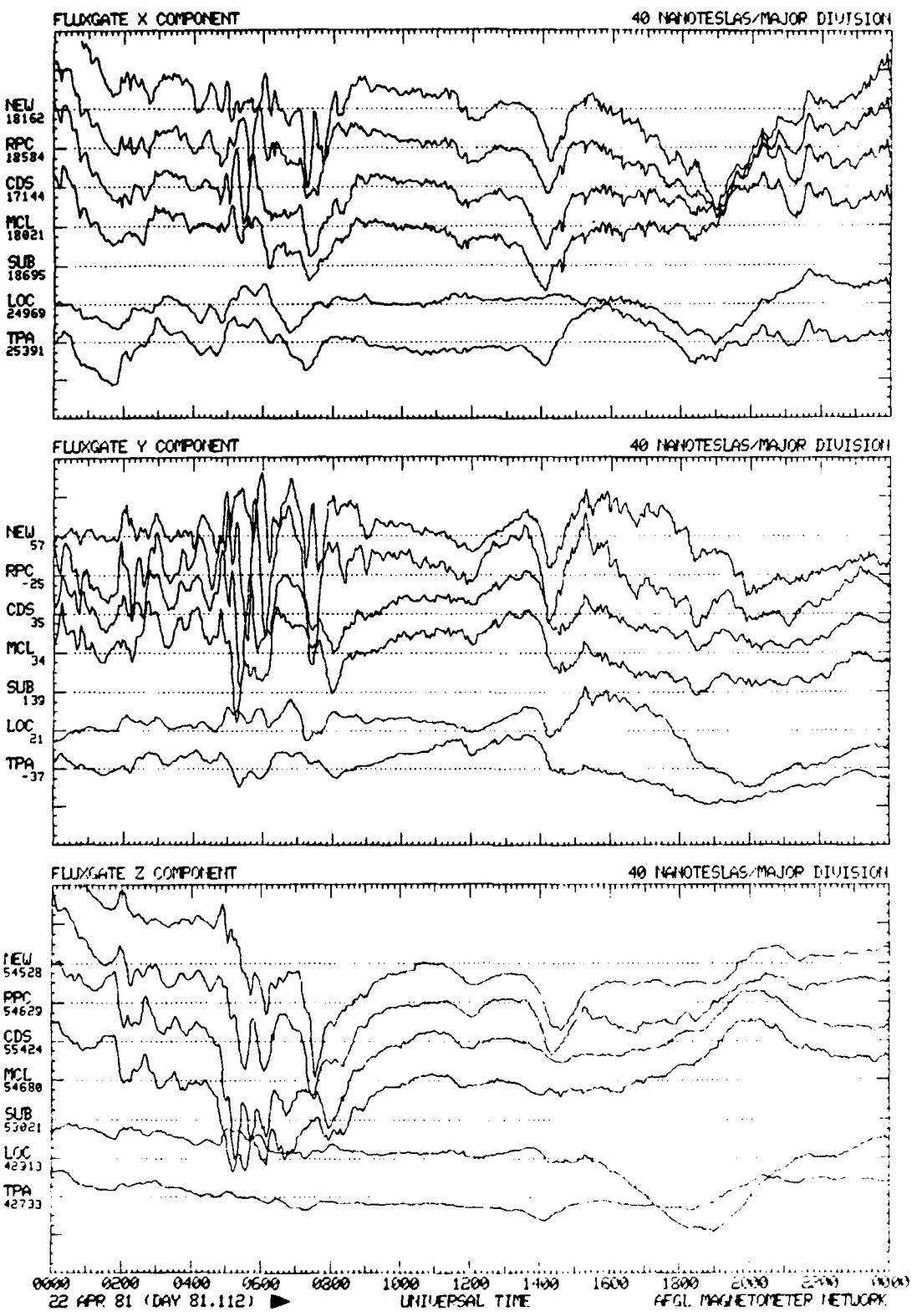
FLUXGATE Z COMPONENT

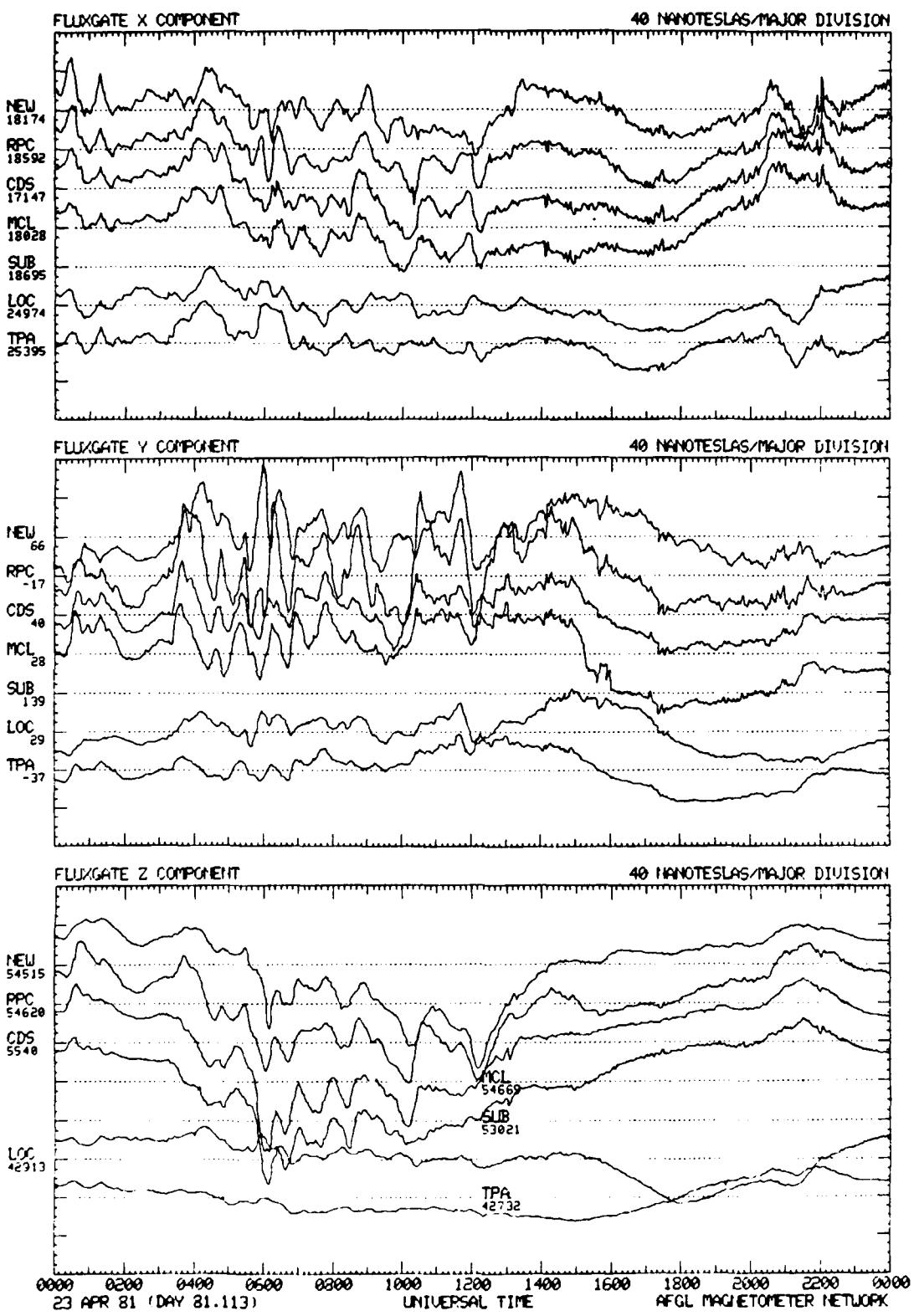
40 NANOTESLAS/MAJOR DIVISION

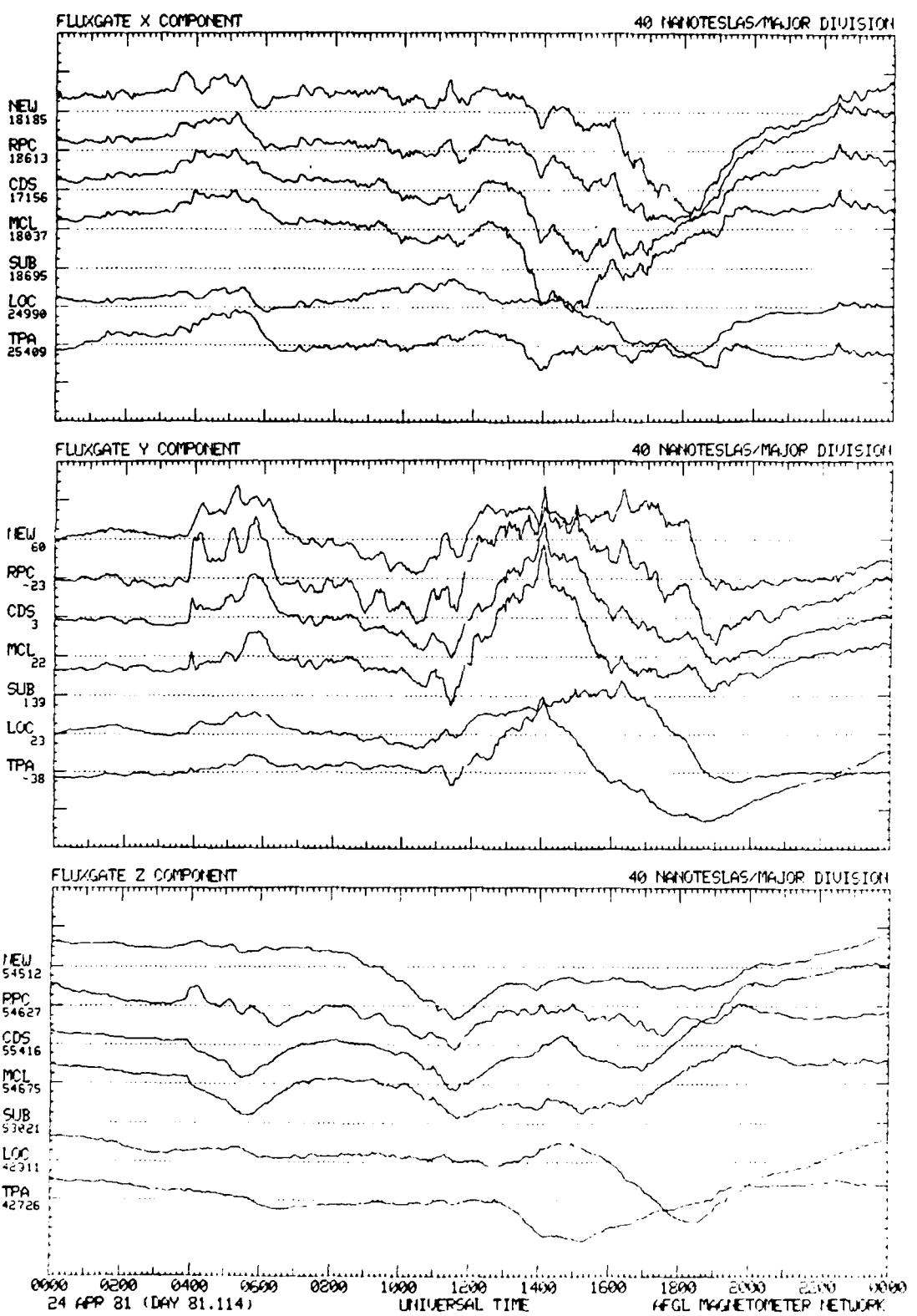
NEW
54552
RPC
54672
CDS
55491
MCL
54745
SUB
57821
LOC
45706
TPA
40759

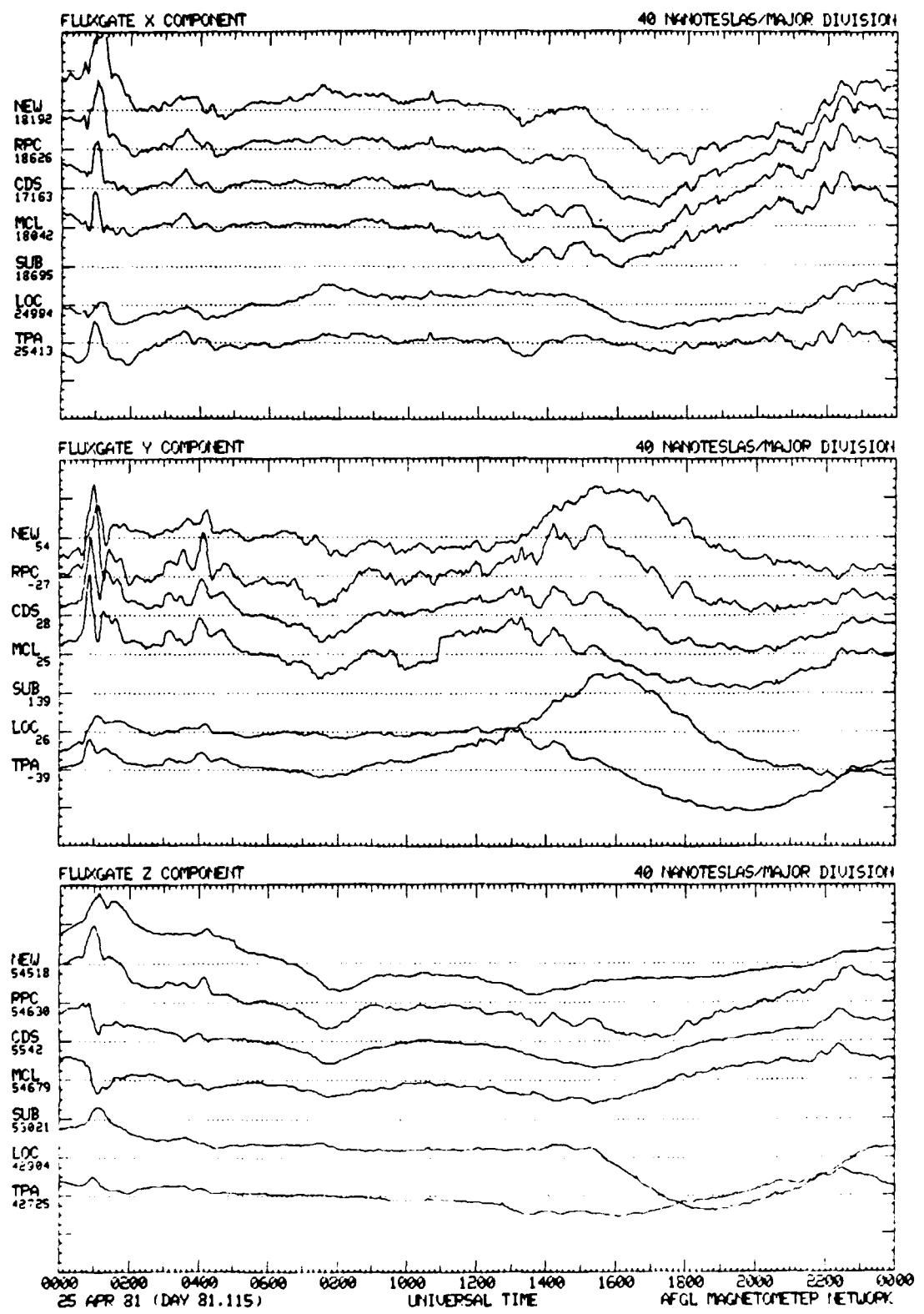
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20 APR 21 (DAY 81.110) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

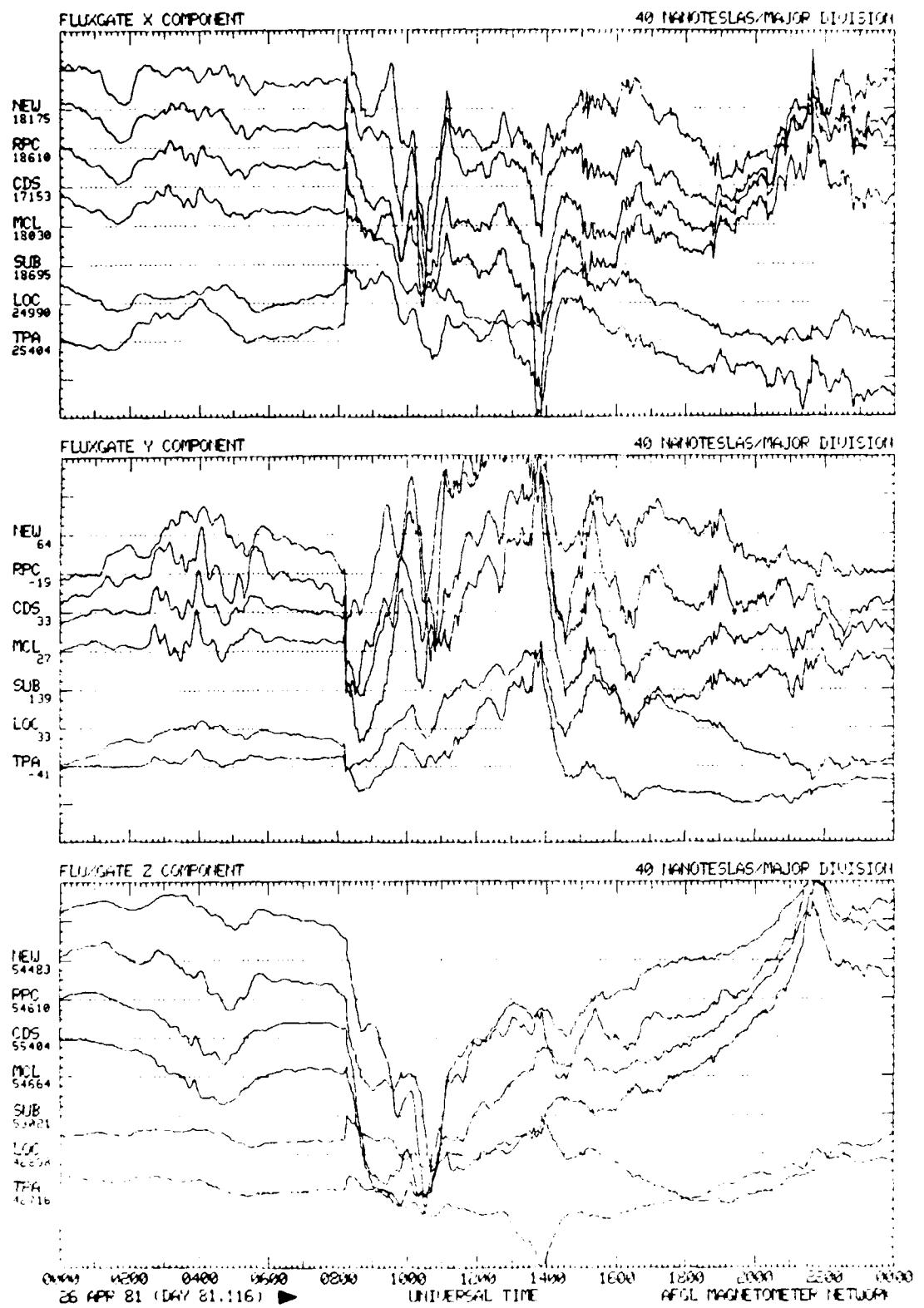


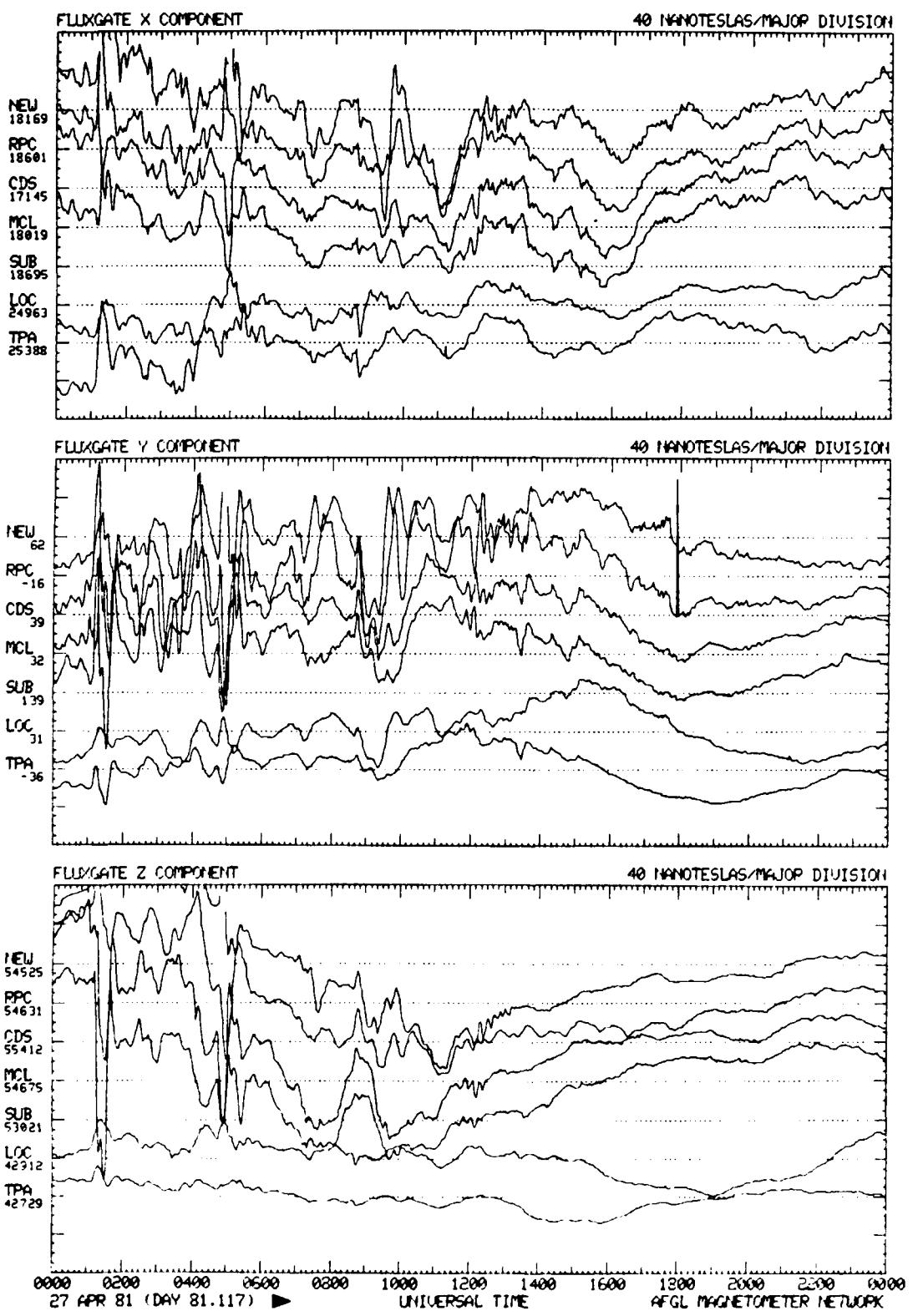


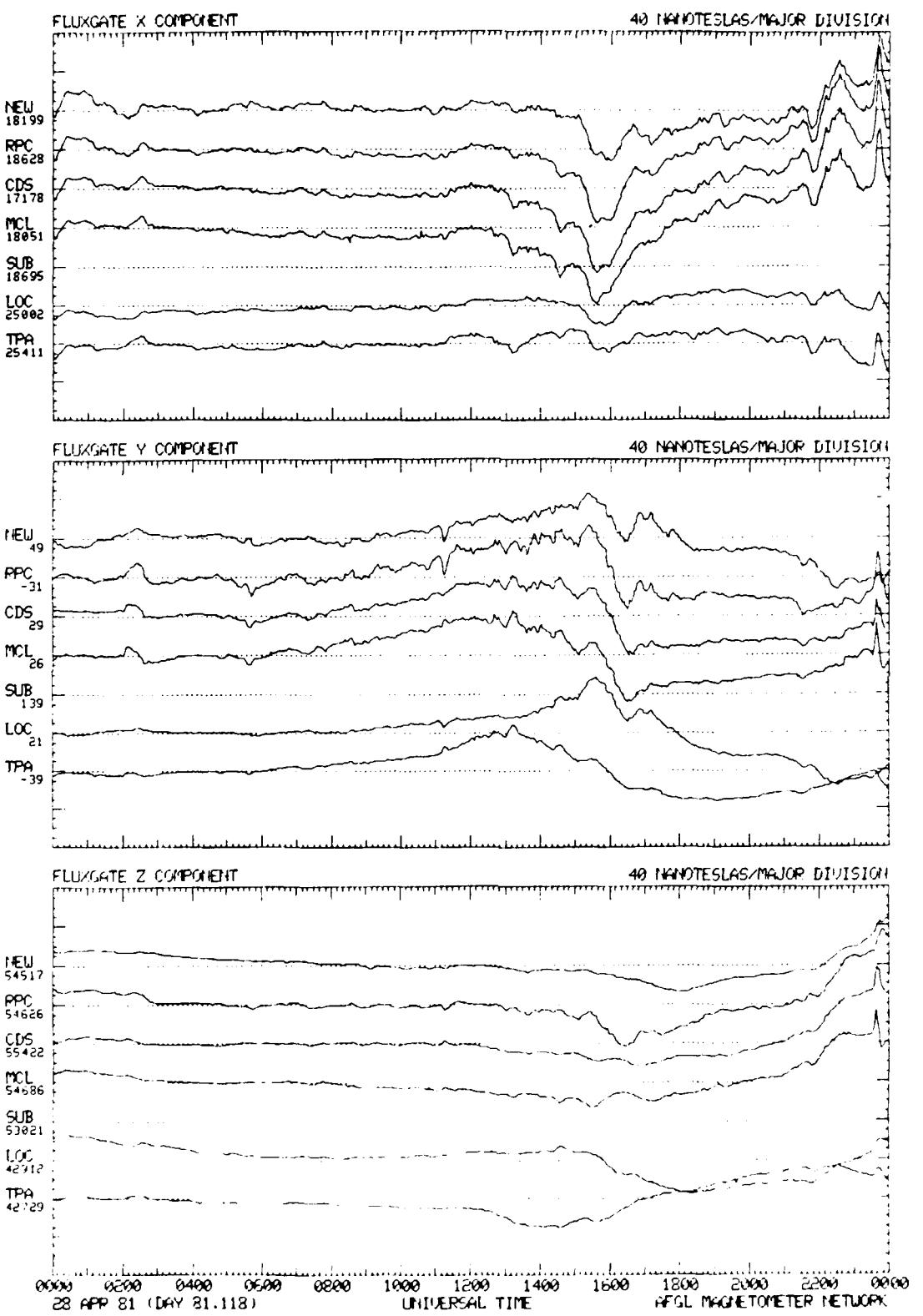


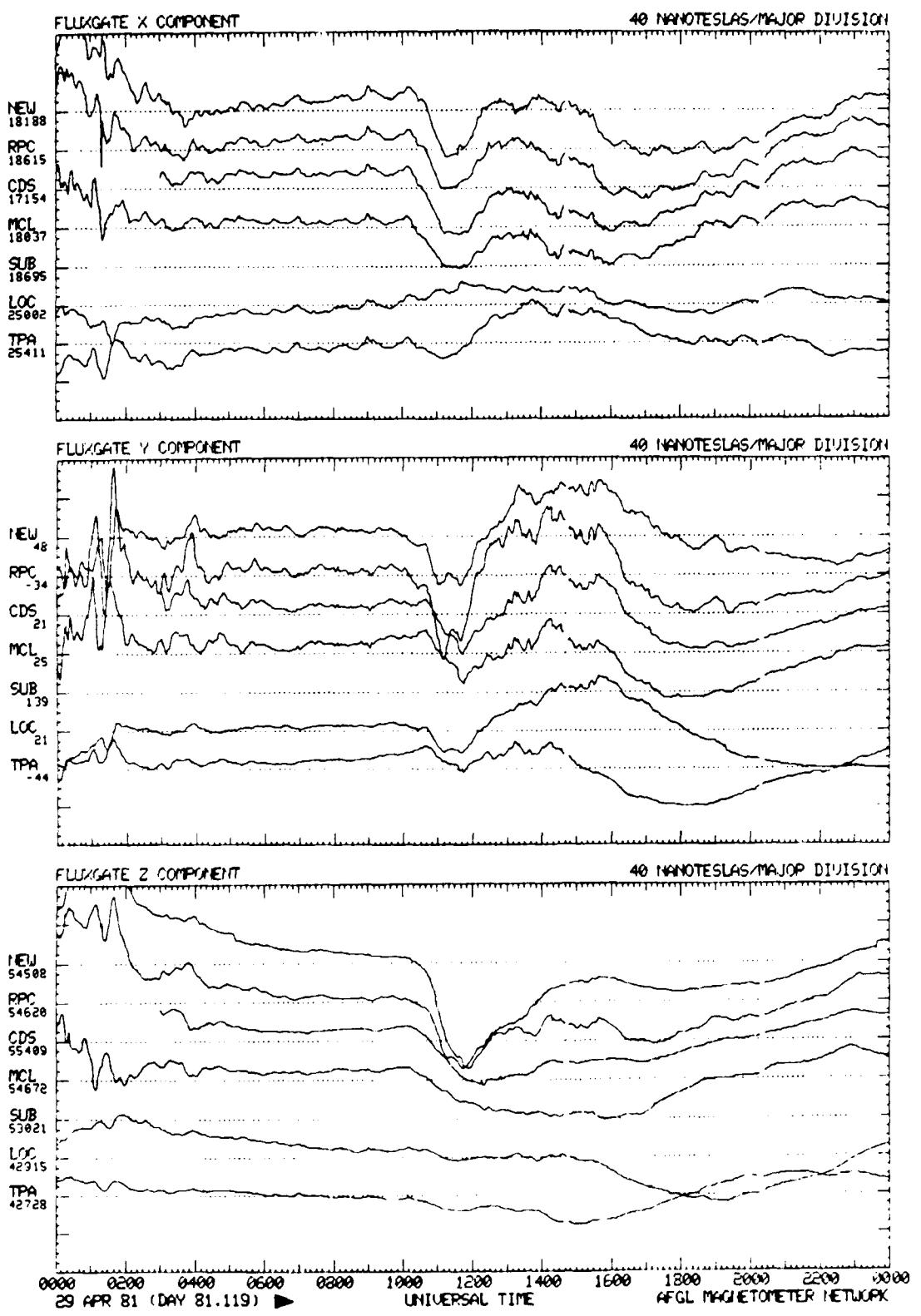


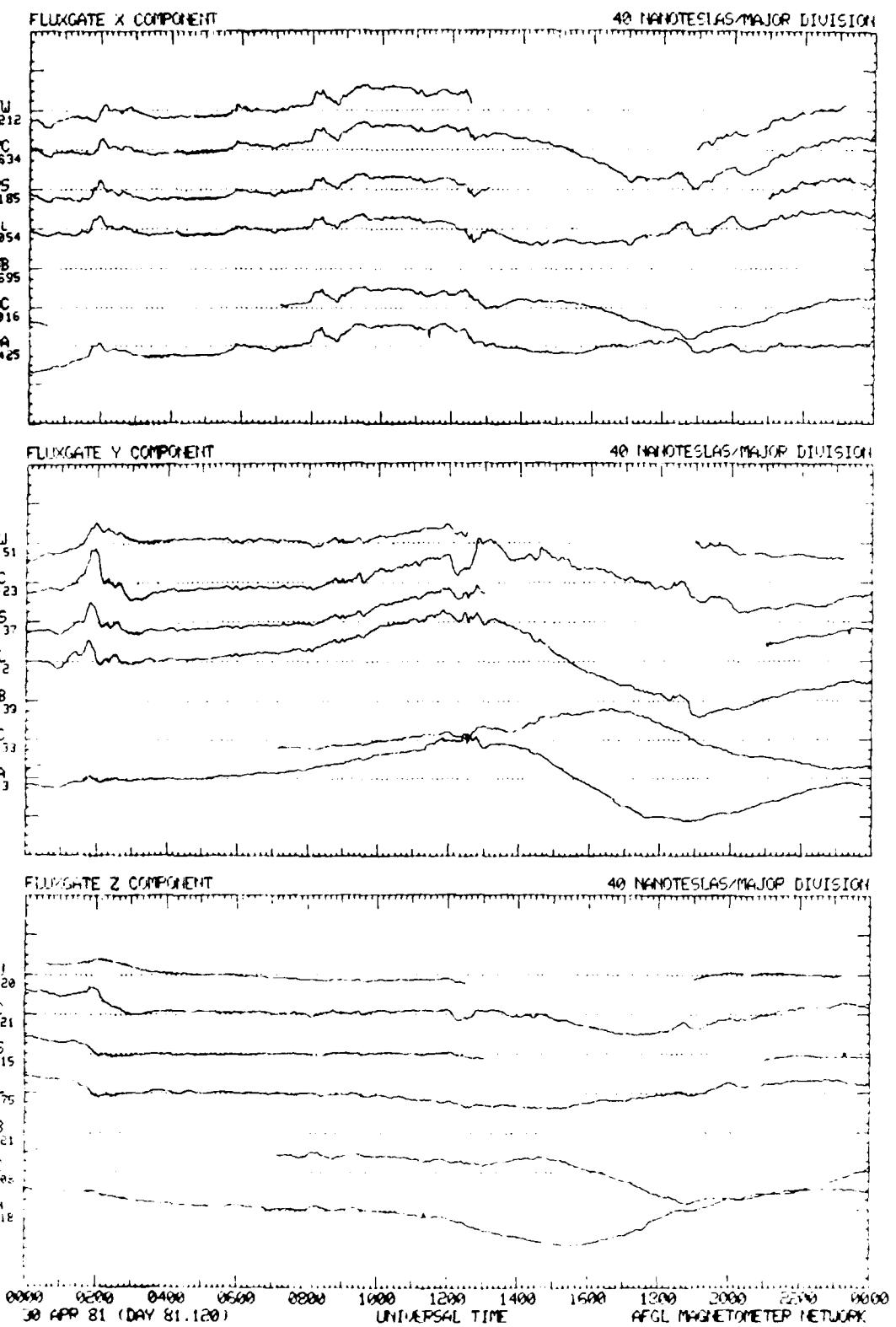


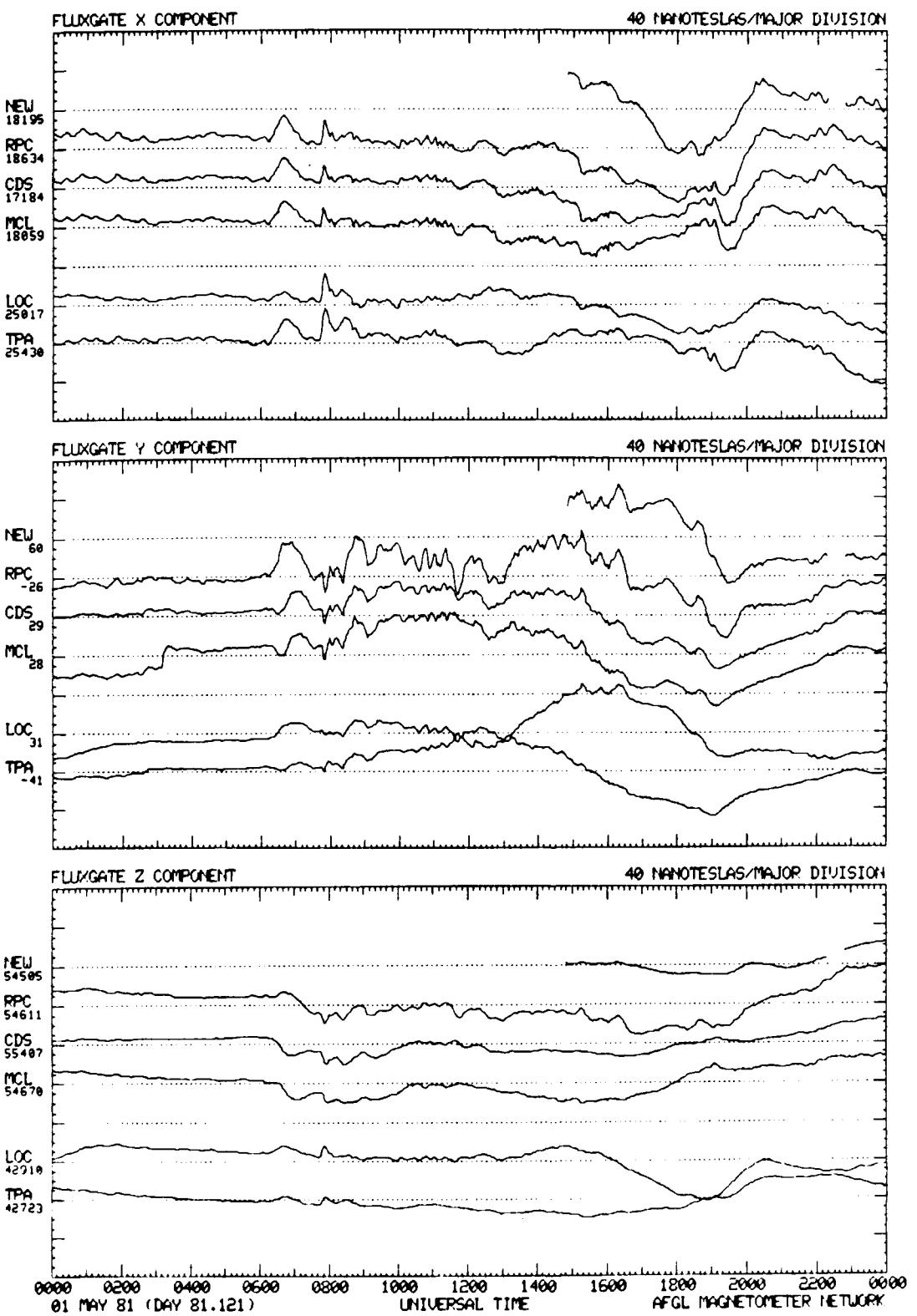


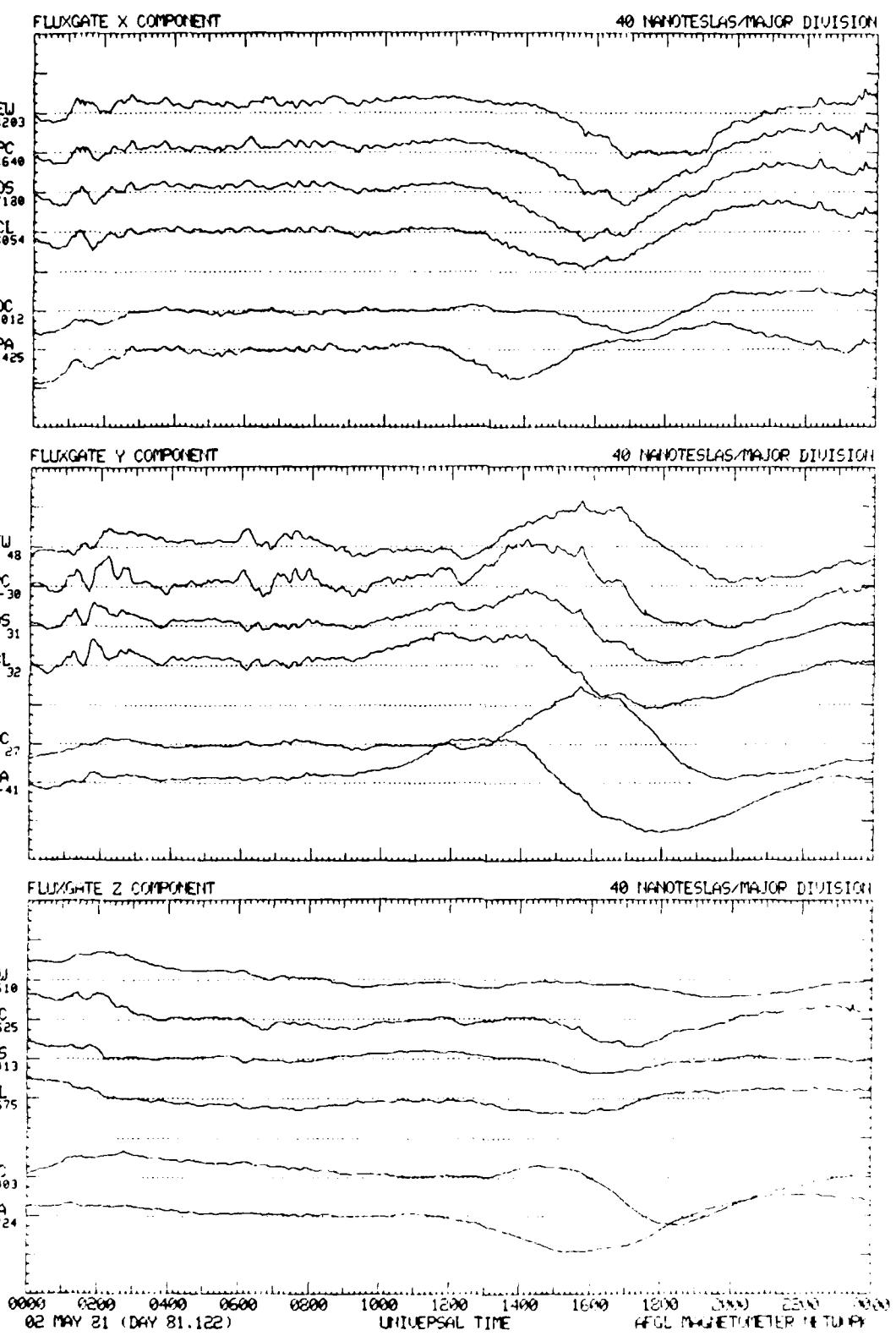


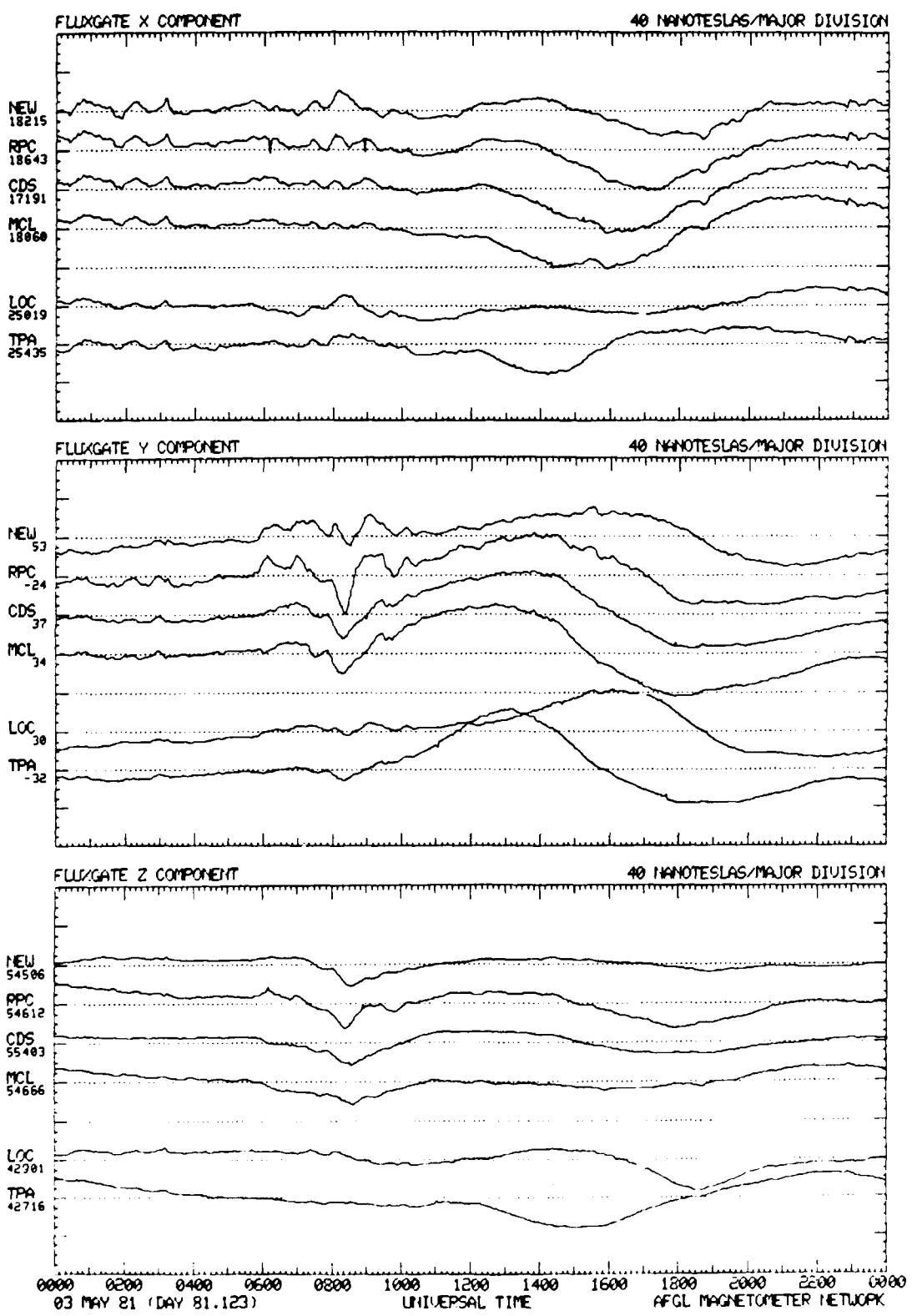


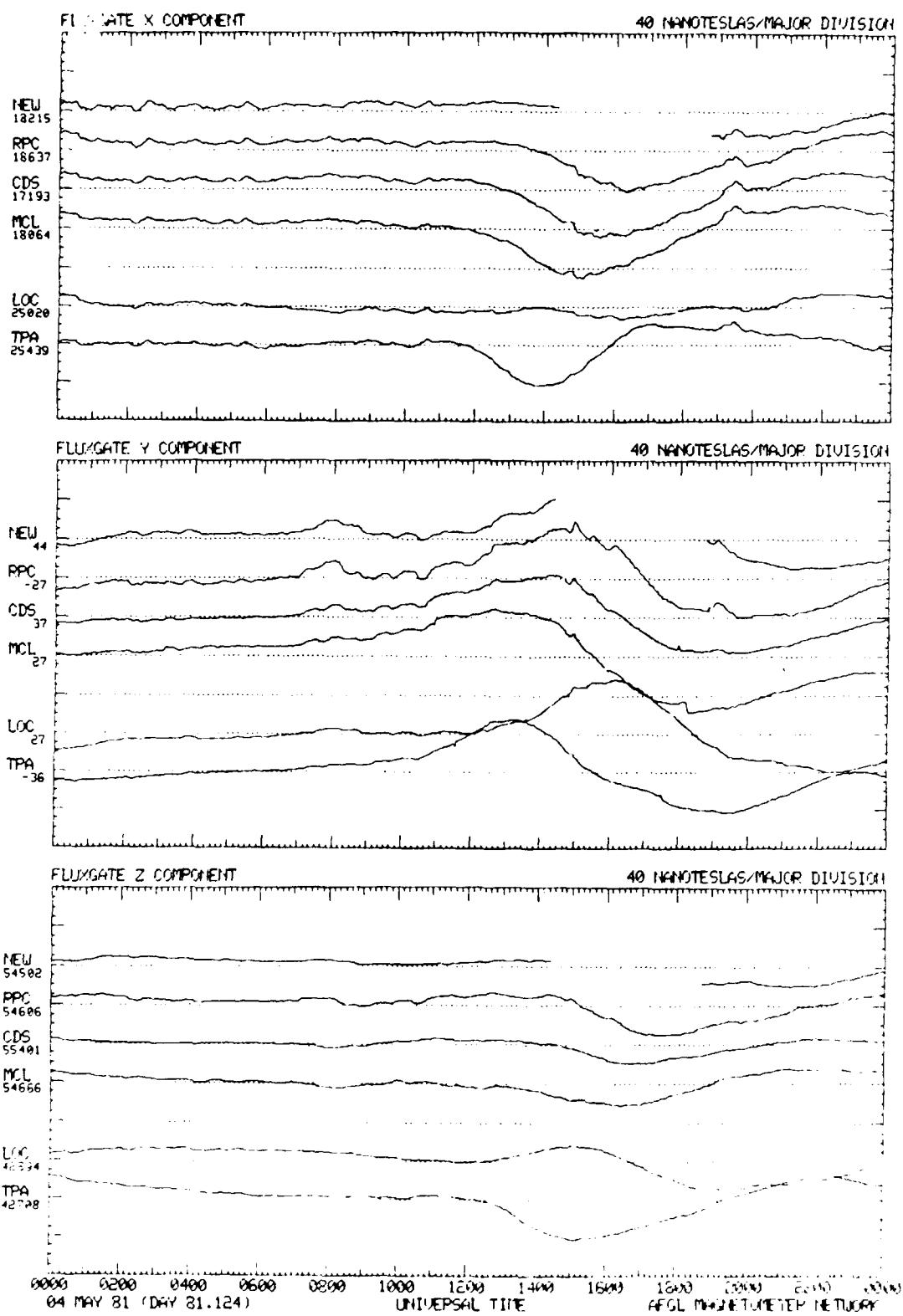


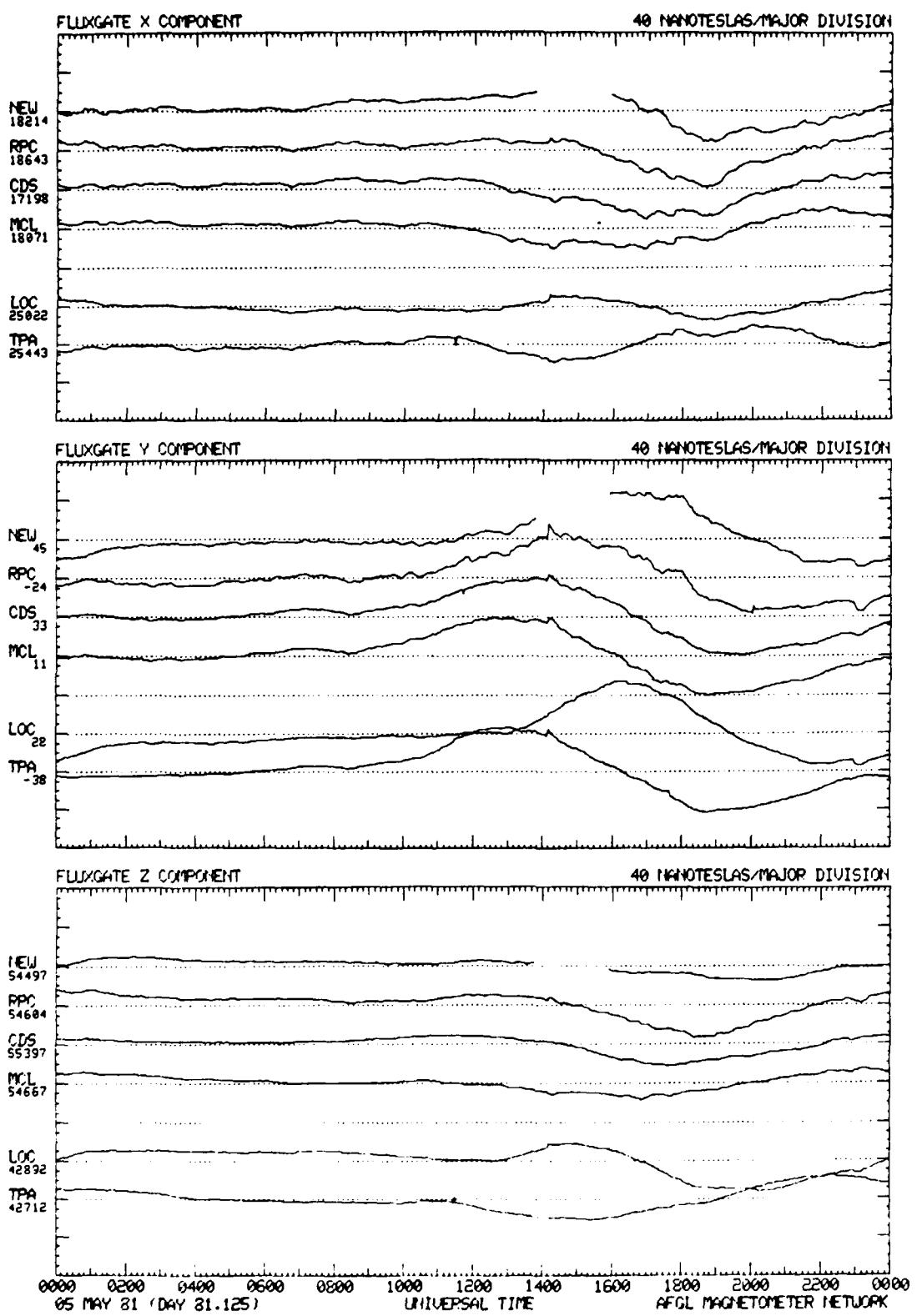


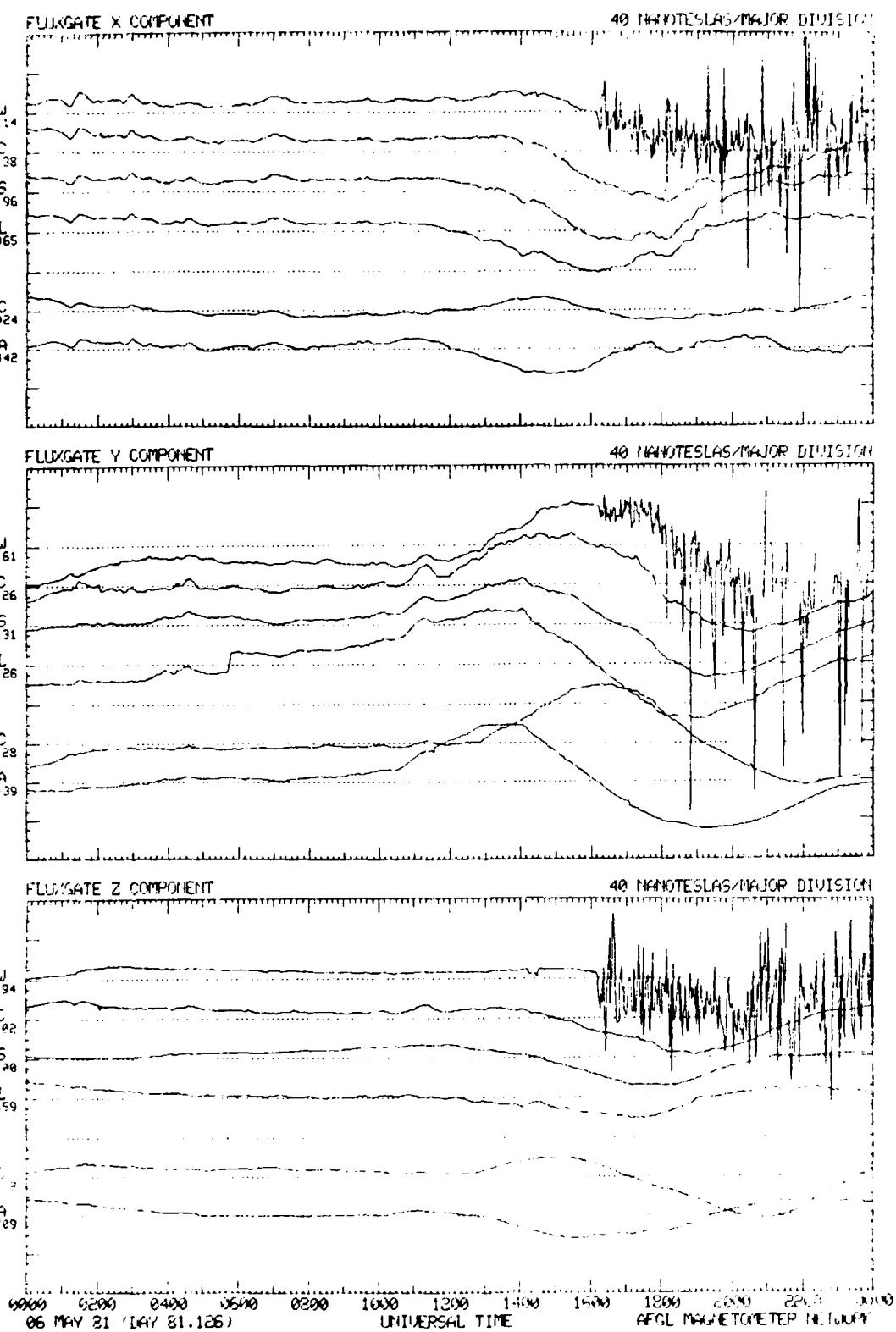


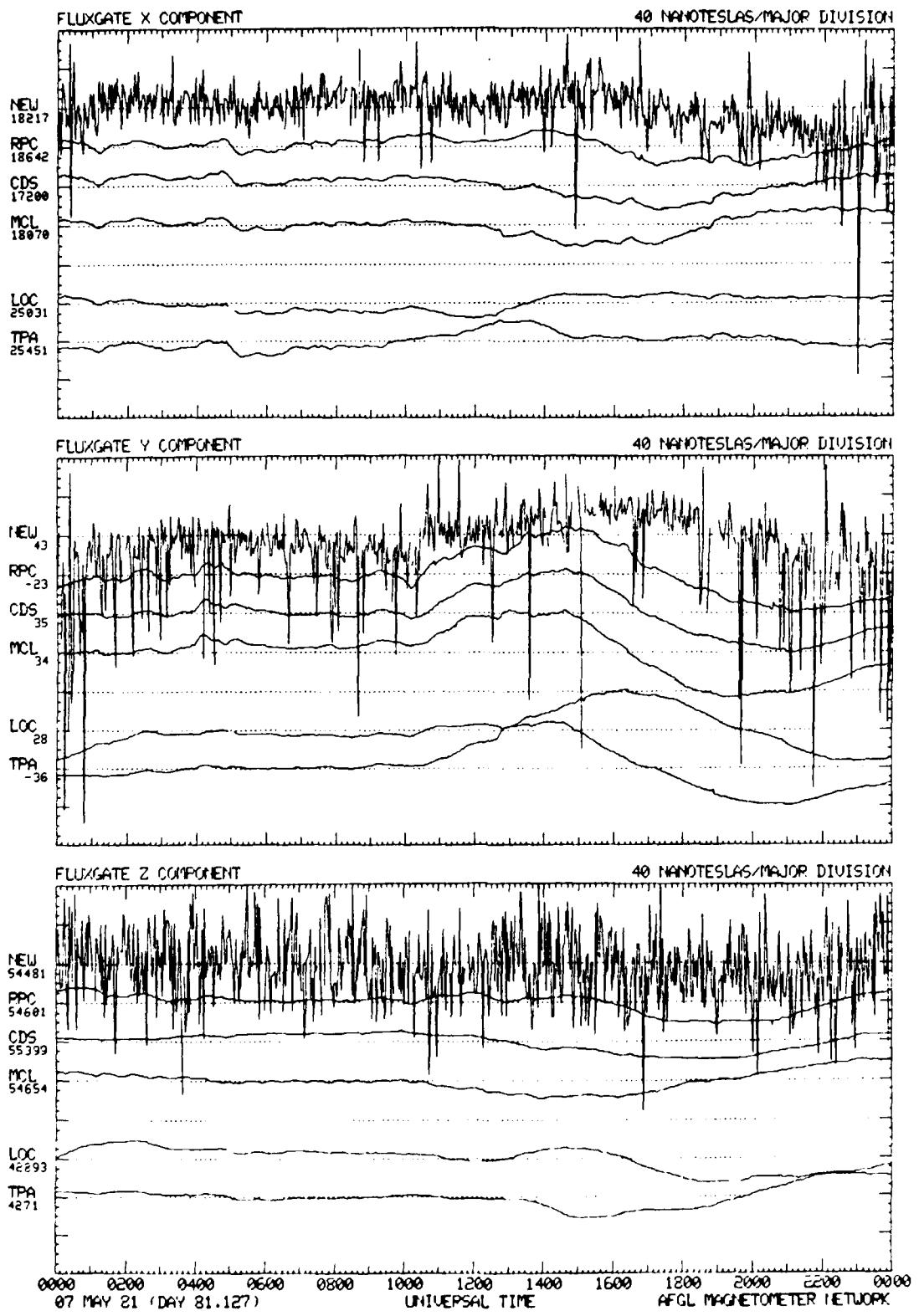


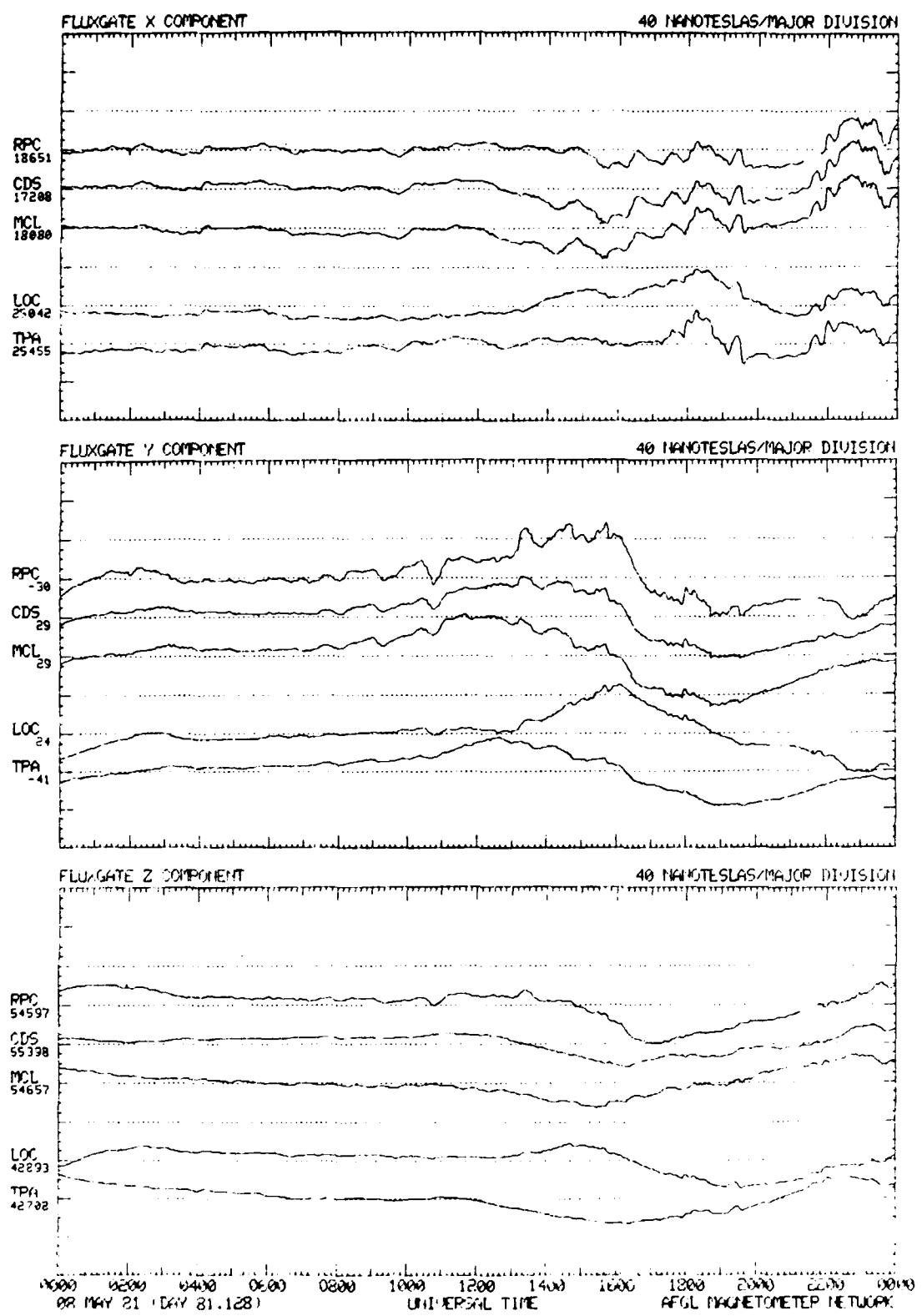


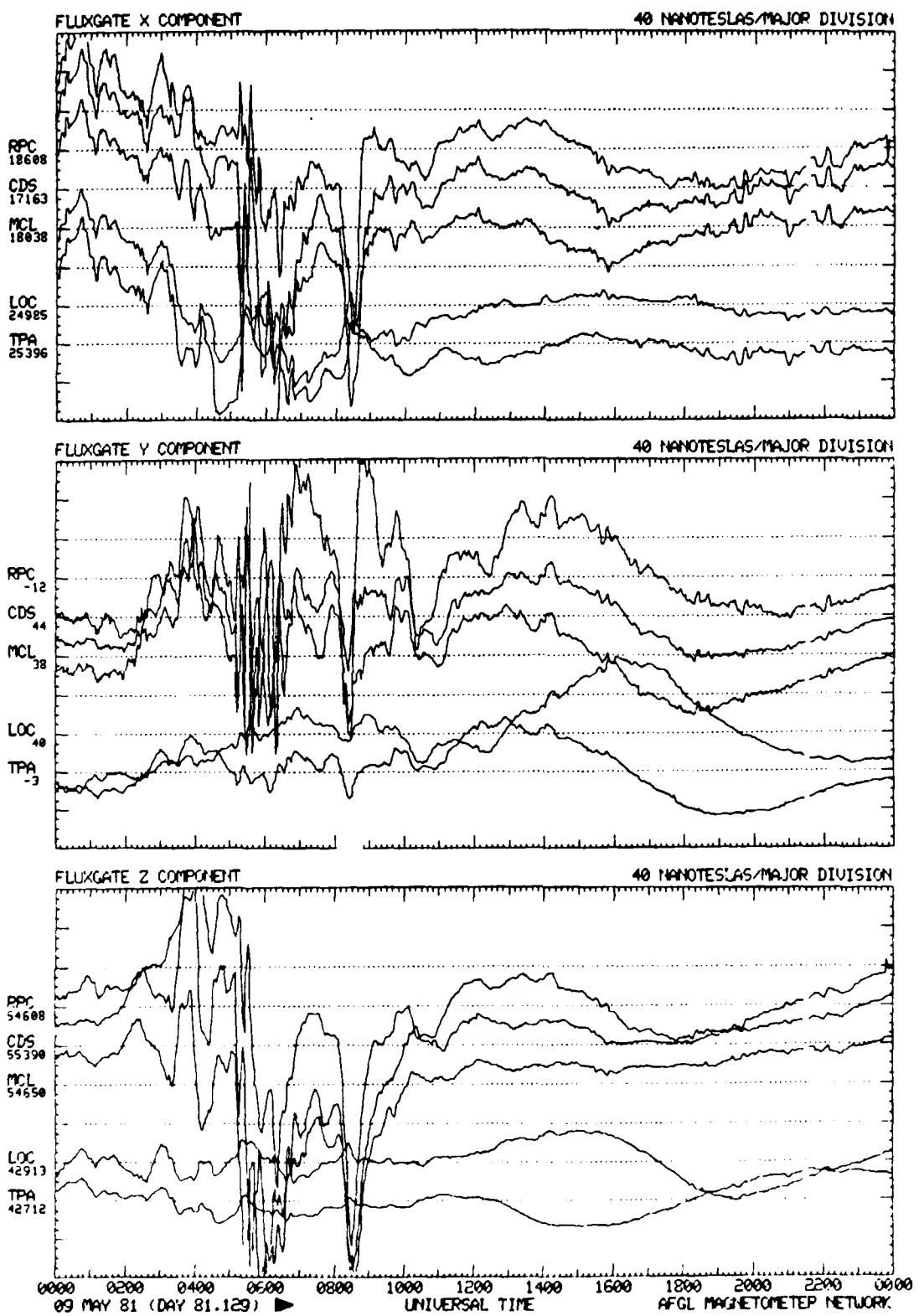












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

RPC

18616

CDS

17195

MCL

1806

LOC

24995

TPA

25406

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

RPC

-30

CDS

23

MCL

21

LOC

27

TPA

-47

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

PPC

54617

CDS

55420

MCL

54595

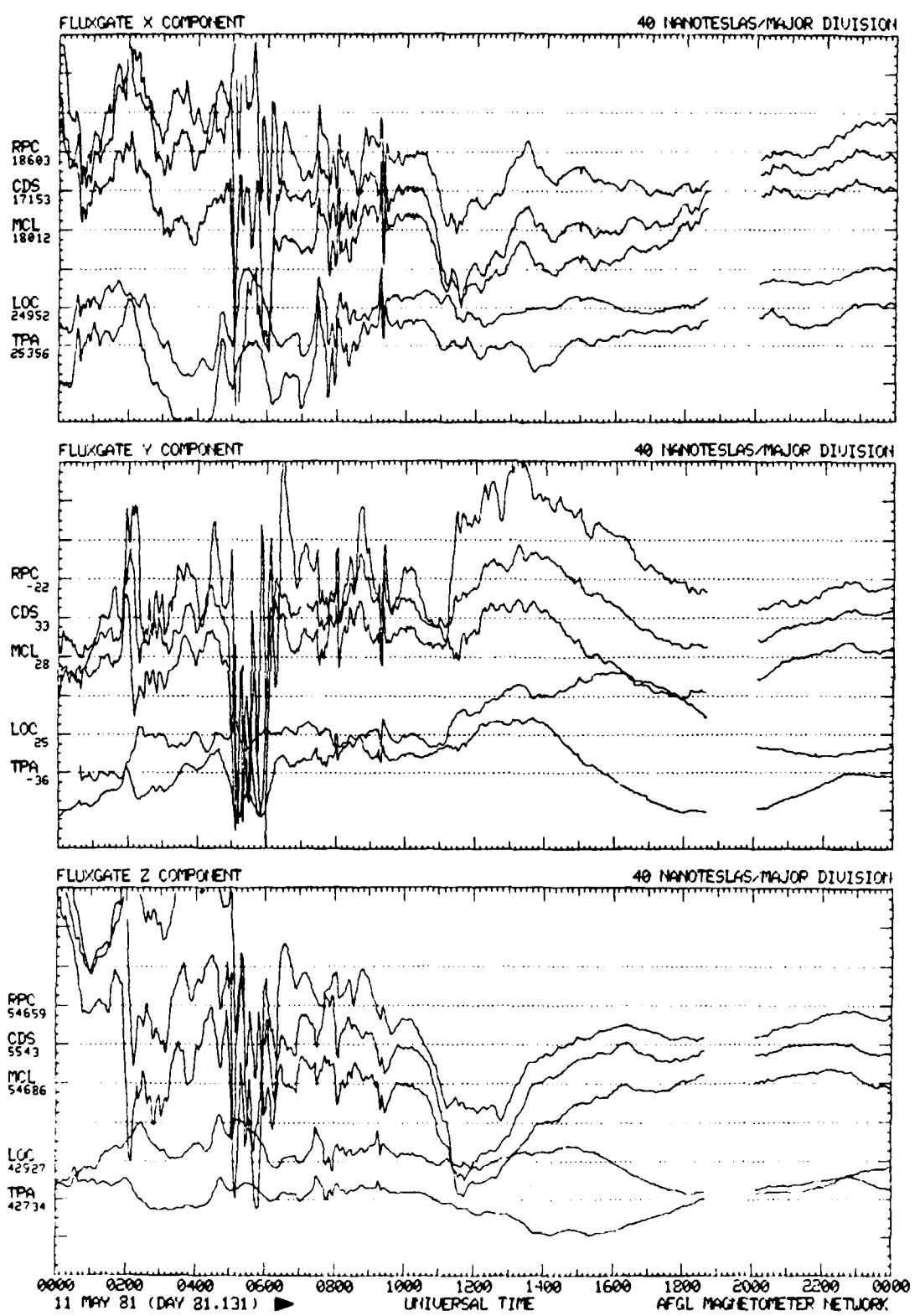
LOC

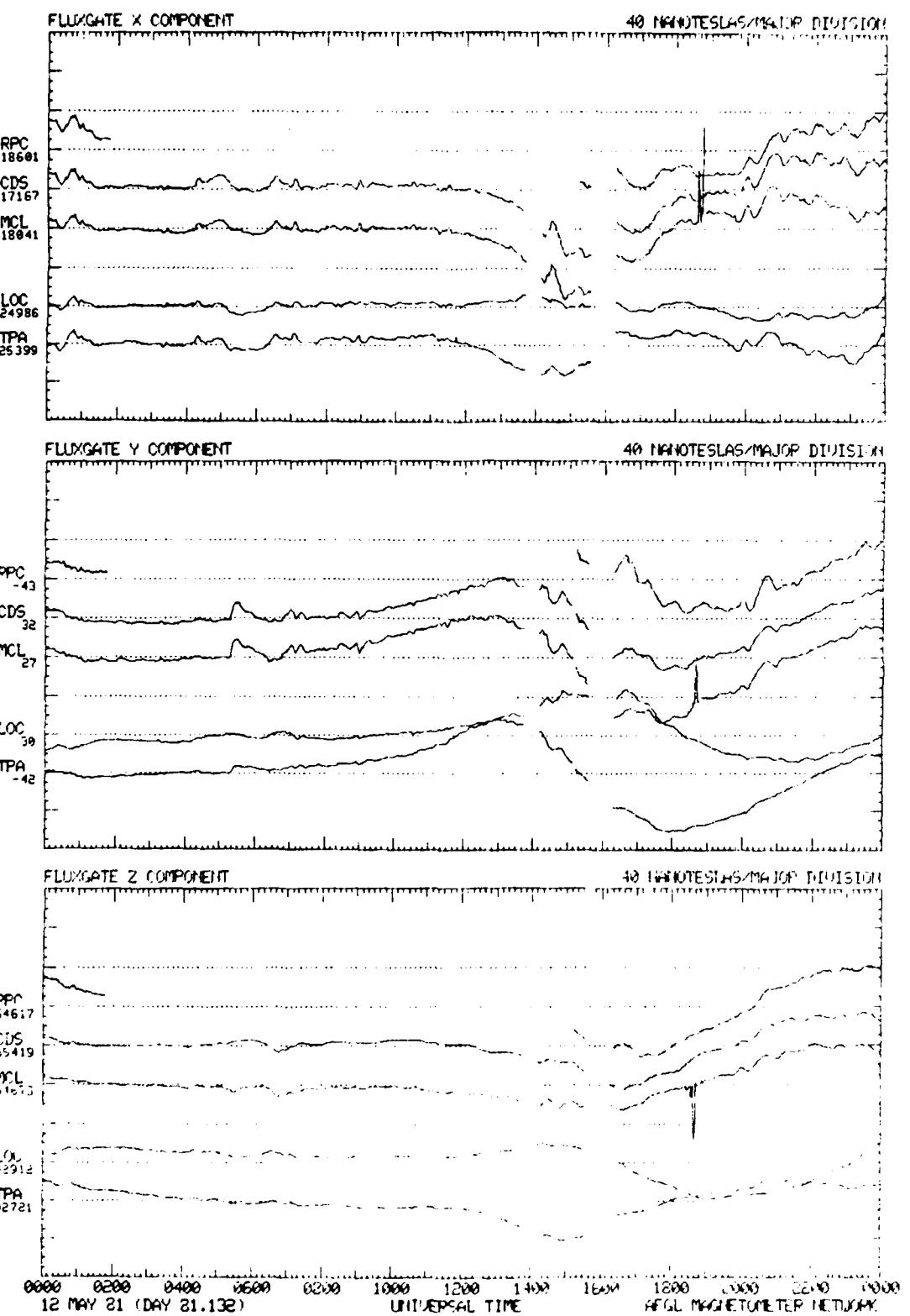
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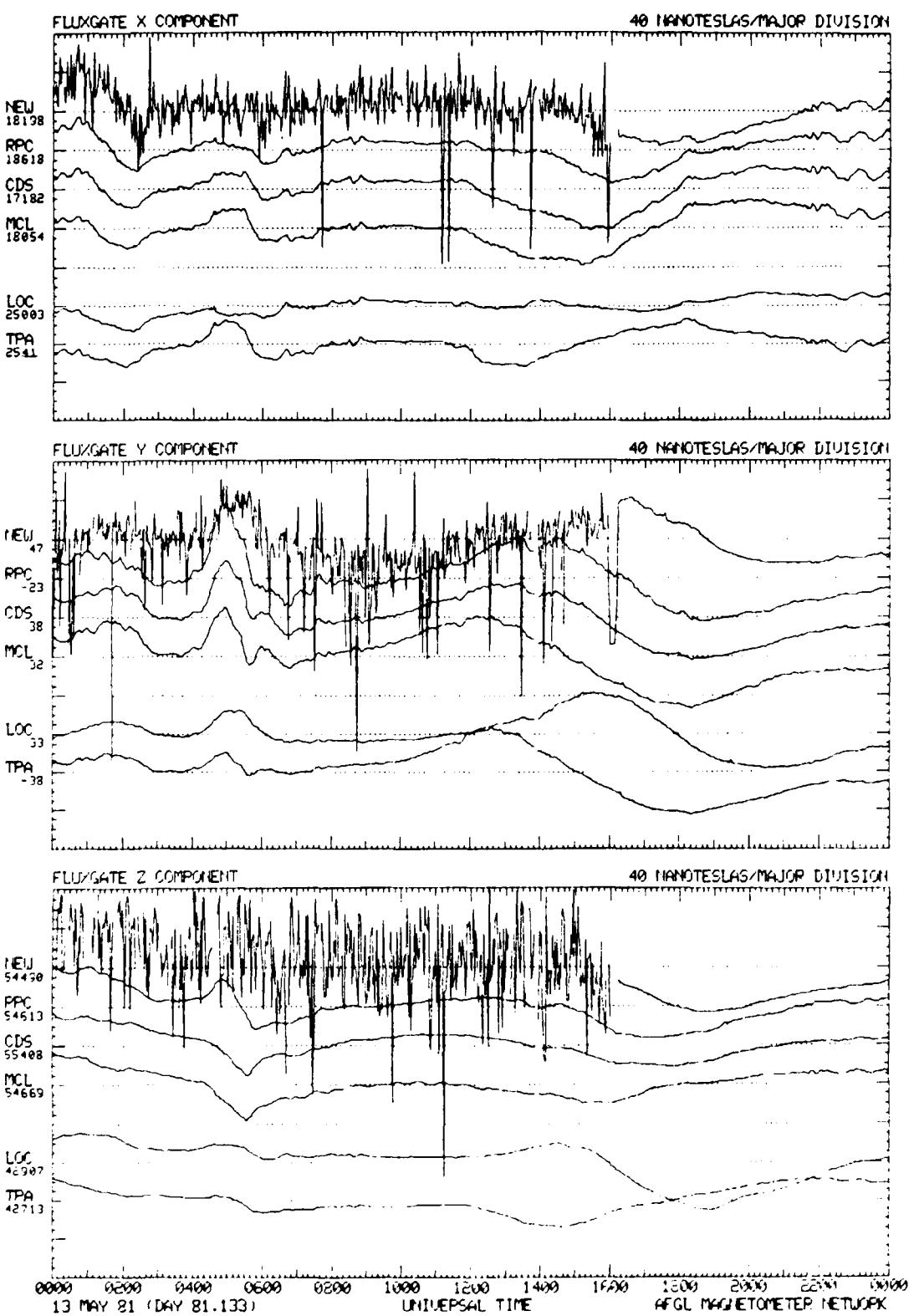
TPA

25723

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10 MAY 81 (DHY 21.130) ►0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
UNIVERSAL TIME40 NANOTESLAS/MAJOR DIVISION
HFUL MAGNETOMETER NETWORK







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW

18208

RPC

18627

CDS

17188

MCL

18058

LOC

25011

TPA

25425

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW

45

RPC

-21

CDS

3

MCL

32

LOC

29

TPA

-37

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW

54464

PPC

54504

CDS

55397

MCL

54656

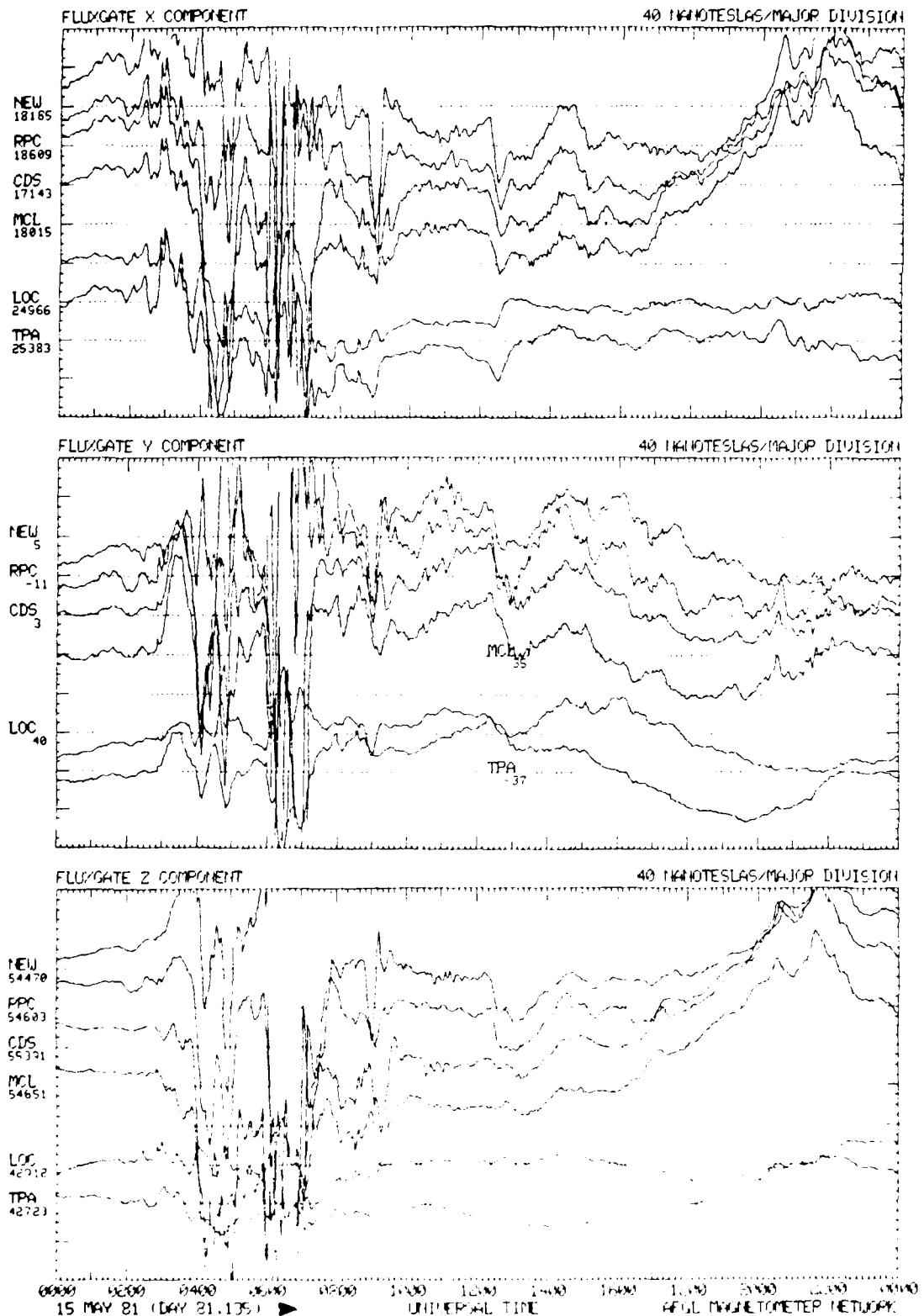
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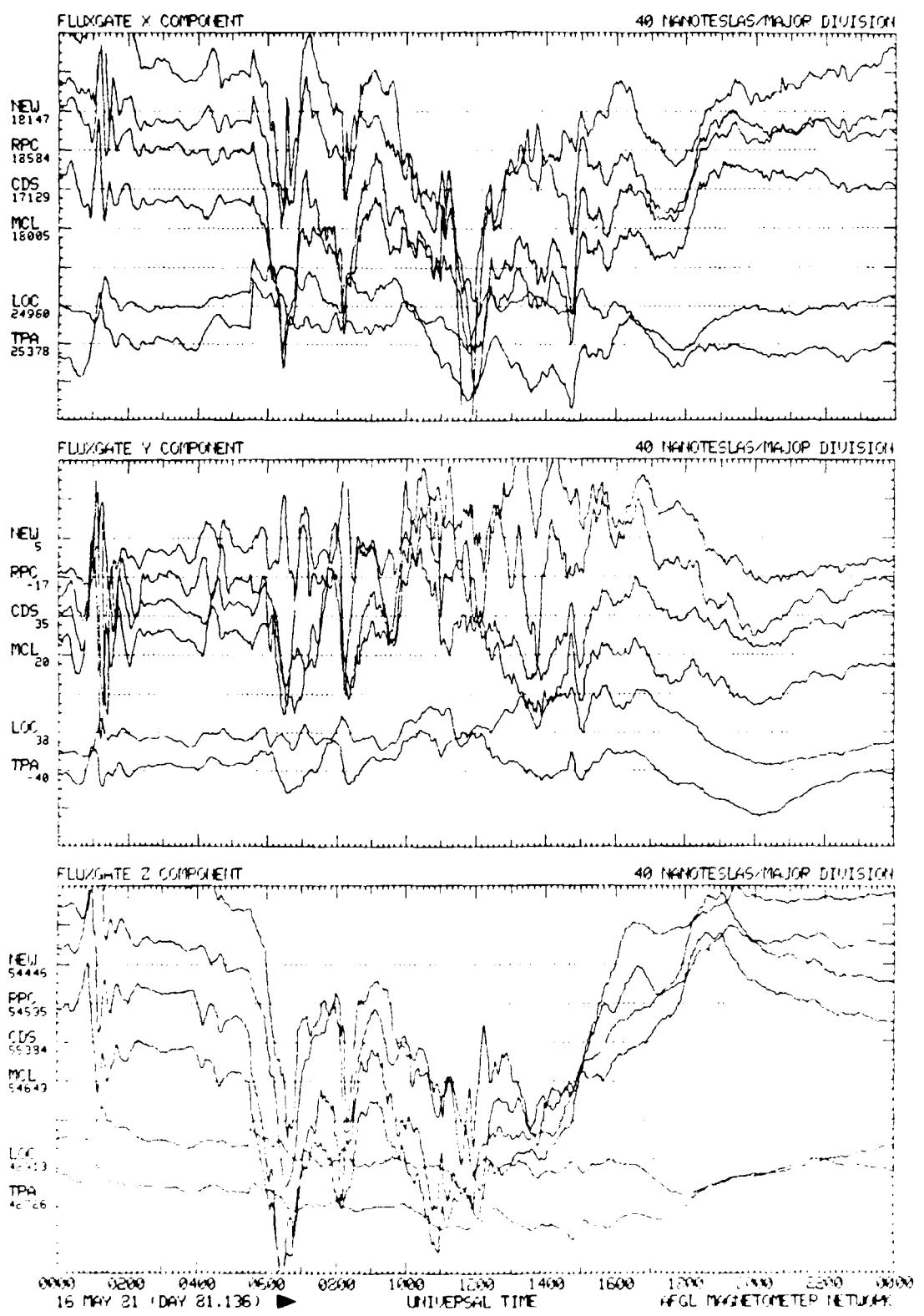
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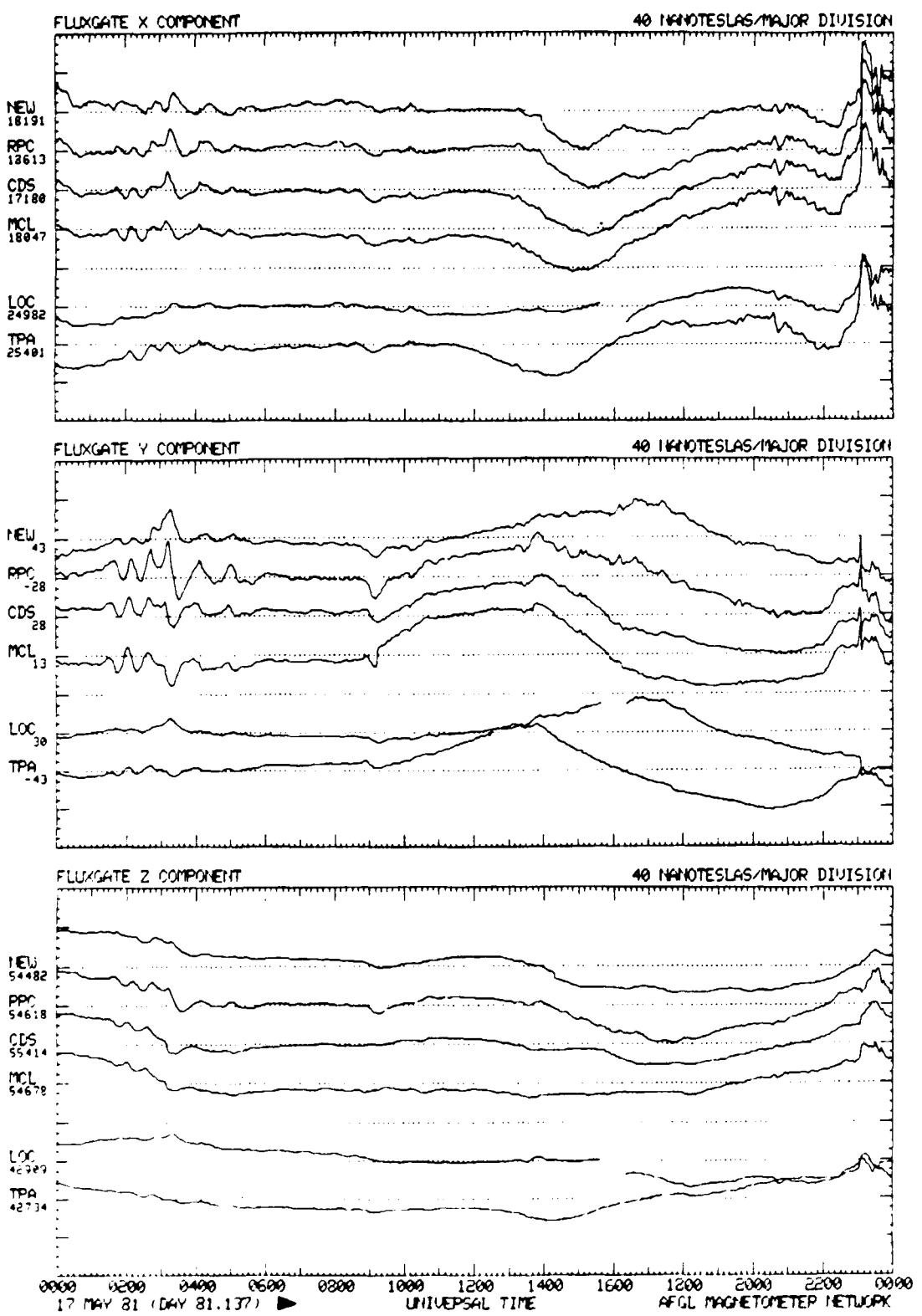
TPA

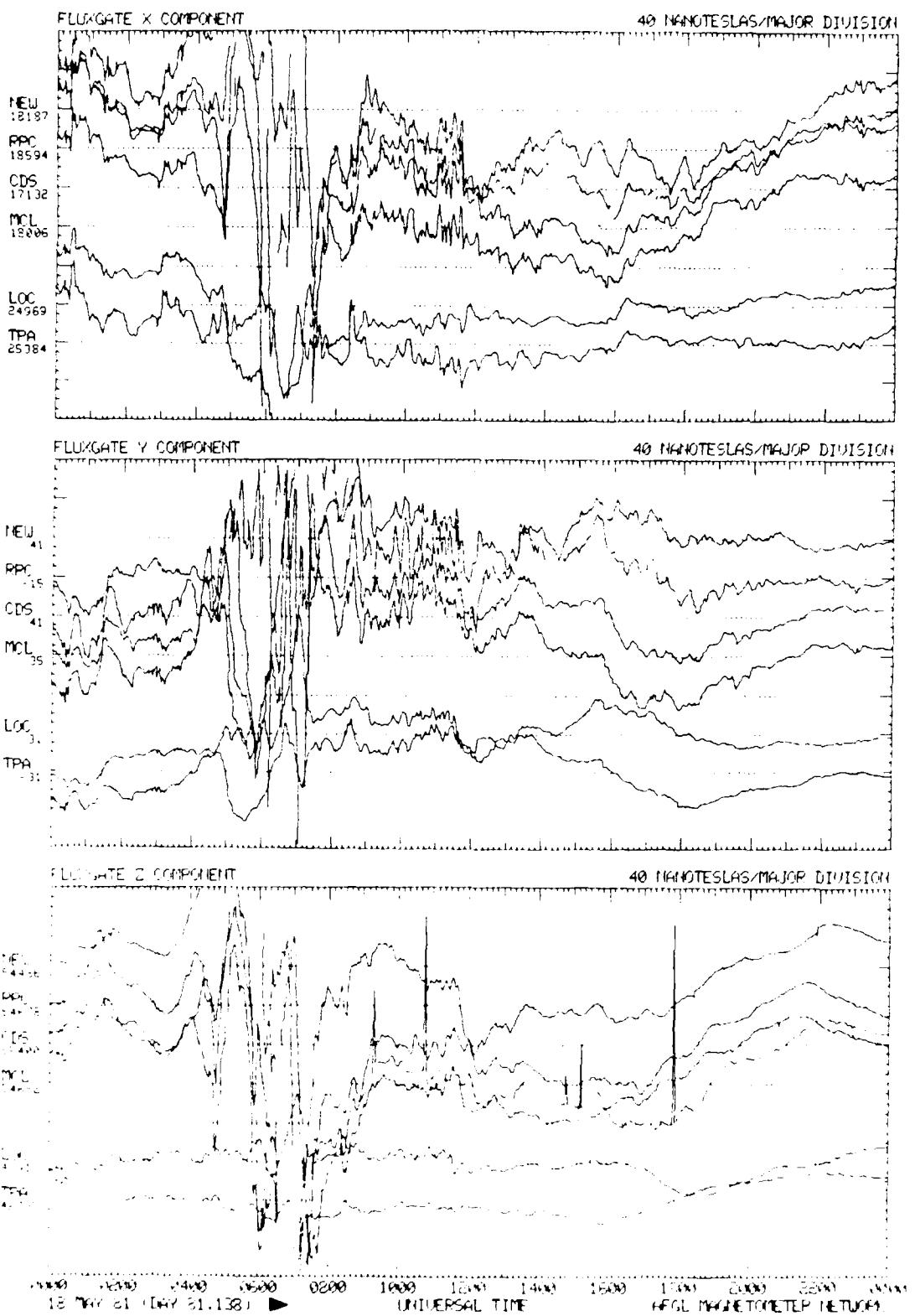
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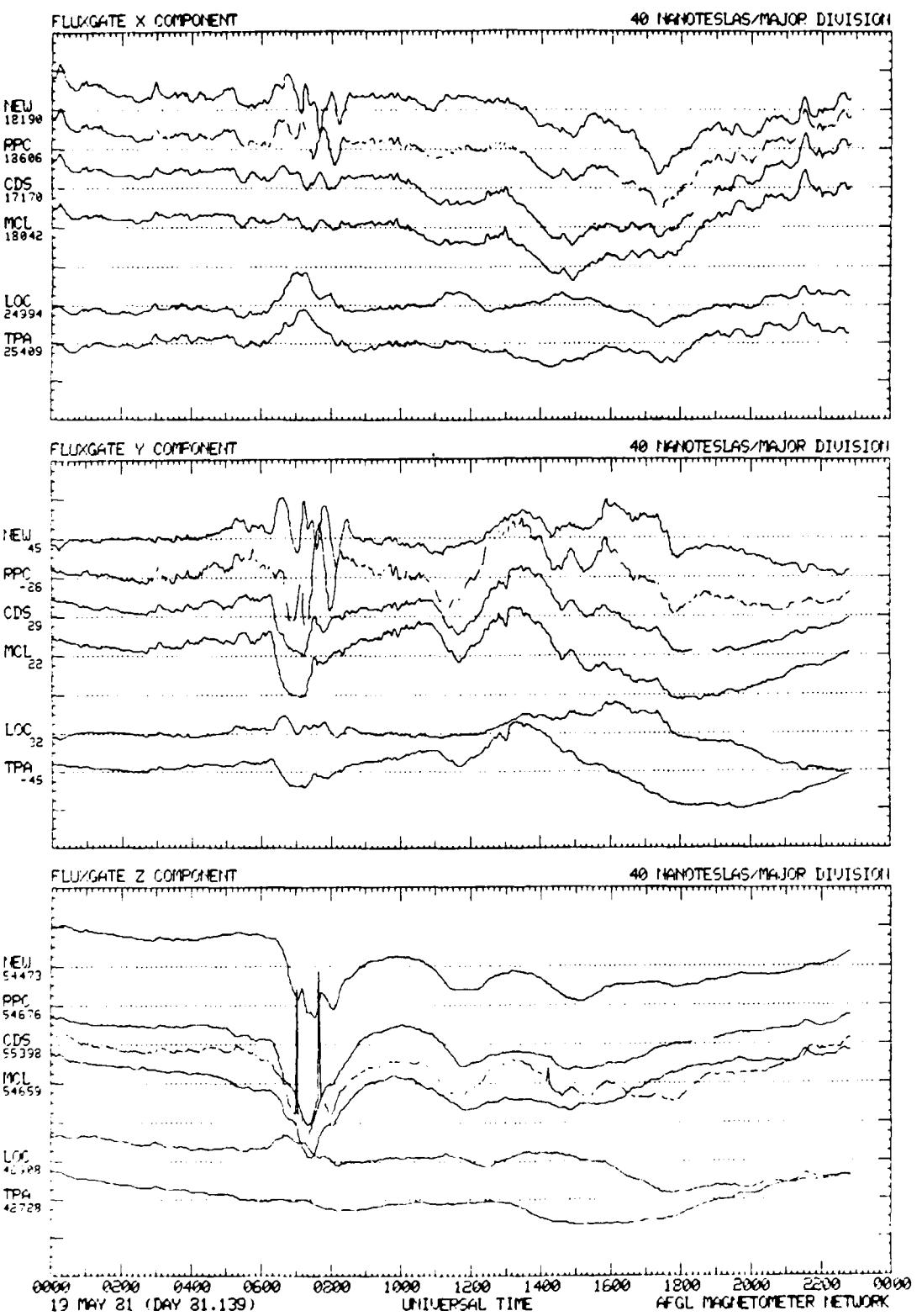
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14 MAY 81 (DAY 81.134) UNIVERSAL TIME AFGL MAGNETOMETER NETWURF











FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18190
RPC
18666
CDS
17170
MCL
18842

LOC
24394
TPA
25489

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
45
RPC
26
CDS
29
MCL
22

LOC
32
TPA
-45

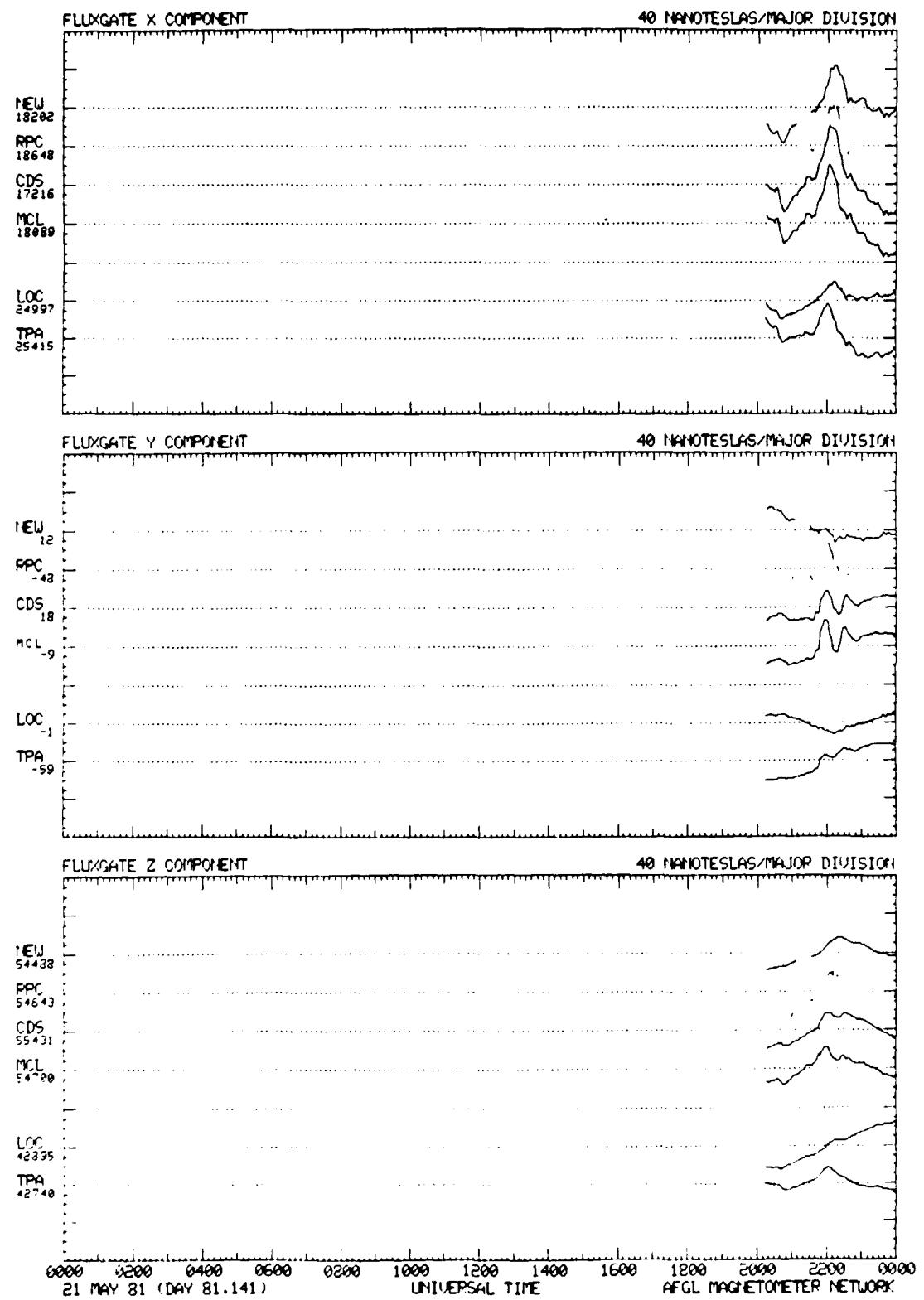
FLUXGATE Z COMPONENT

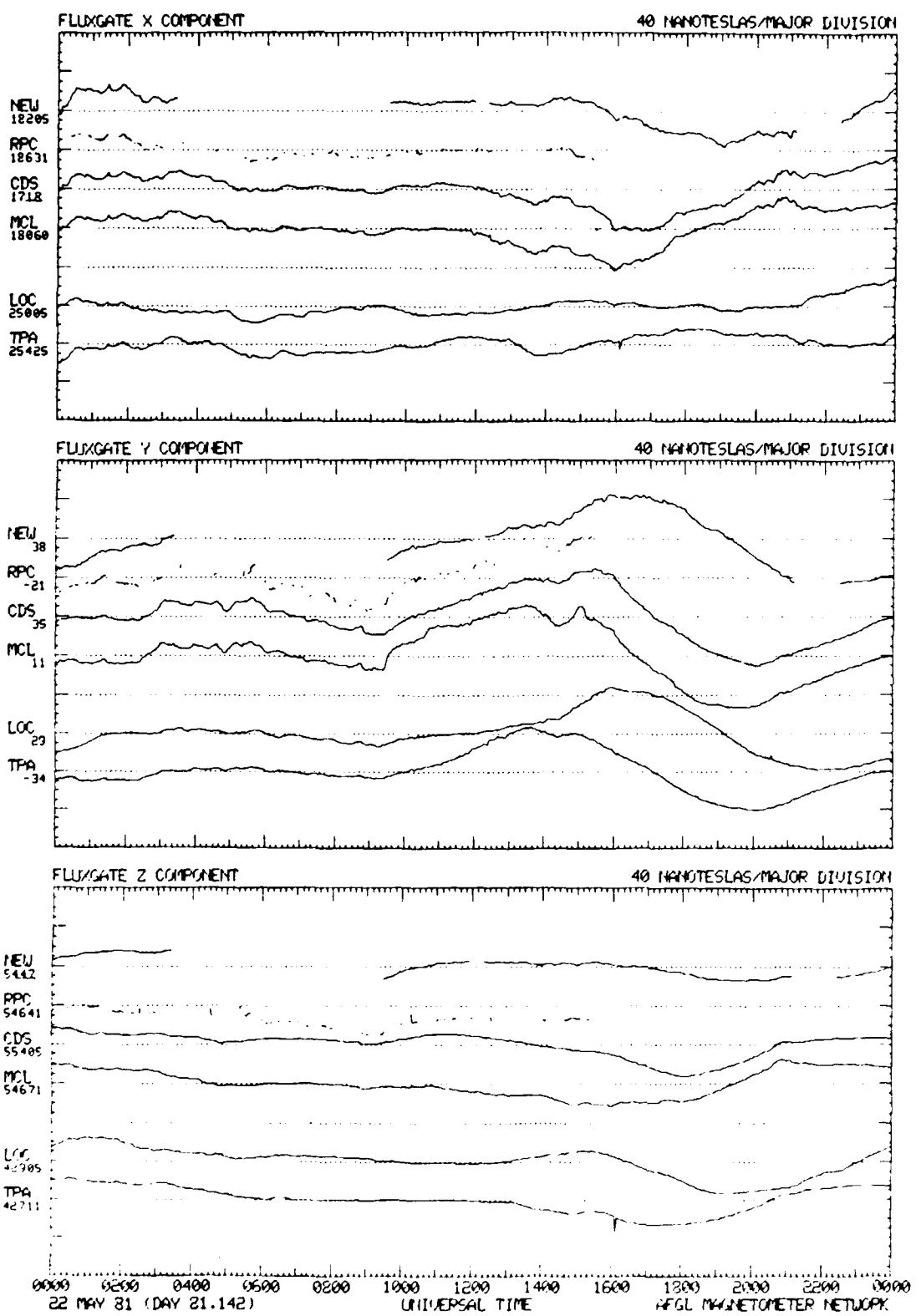
40 NANOTESLAS/MAJOR DIVISION

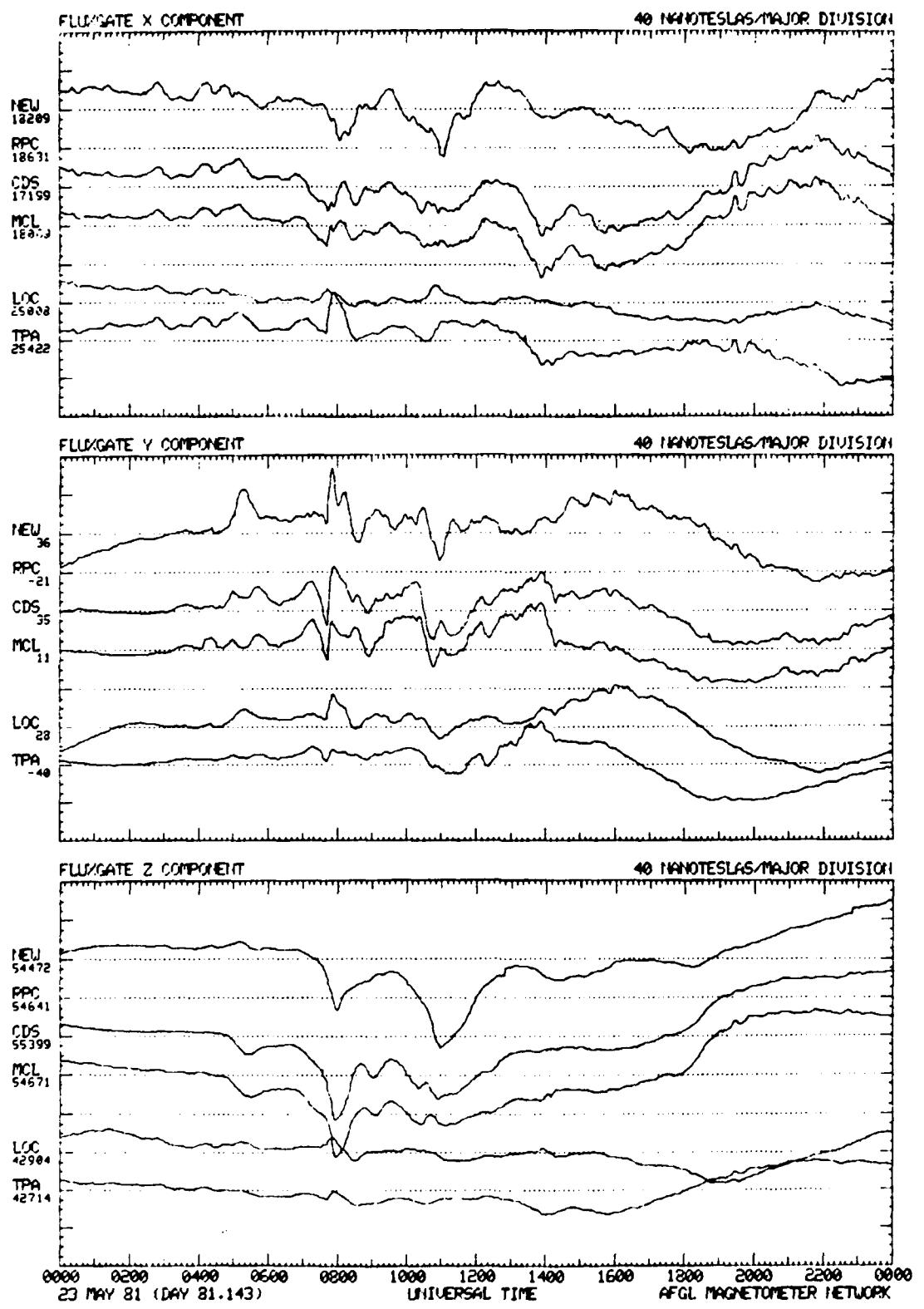
NEW
54473
PPC
54676
CDS
55338
MCL
54659

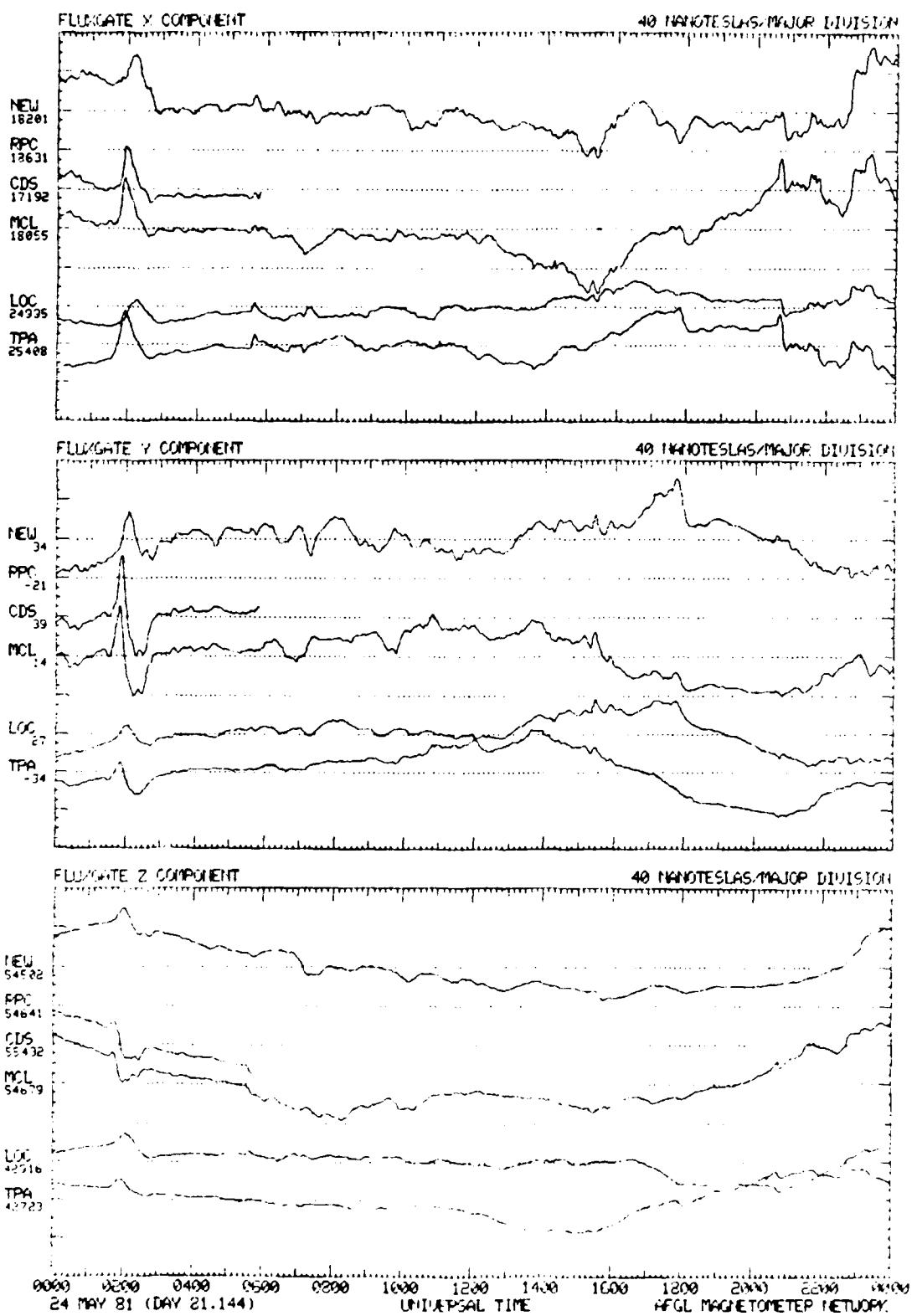
LOC
45788
TPA
42728

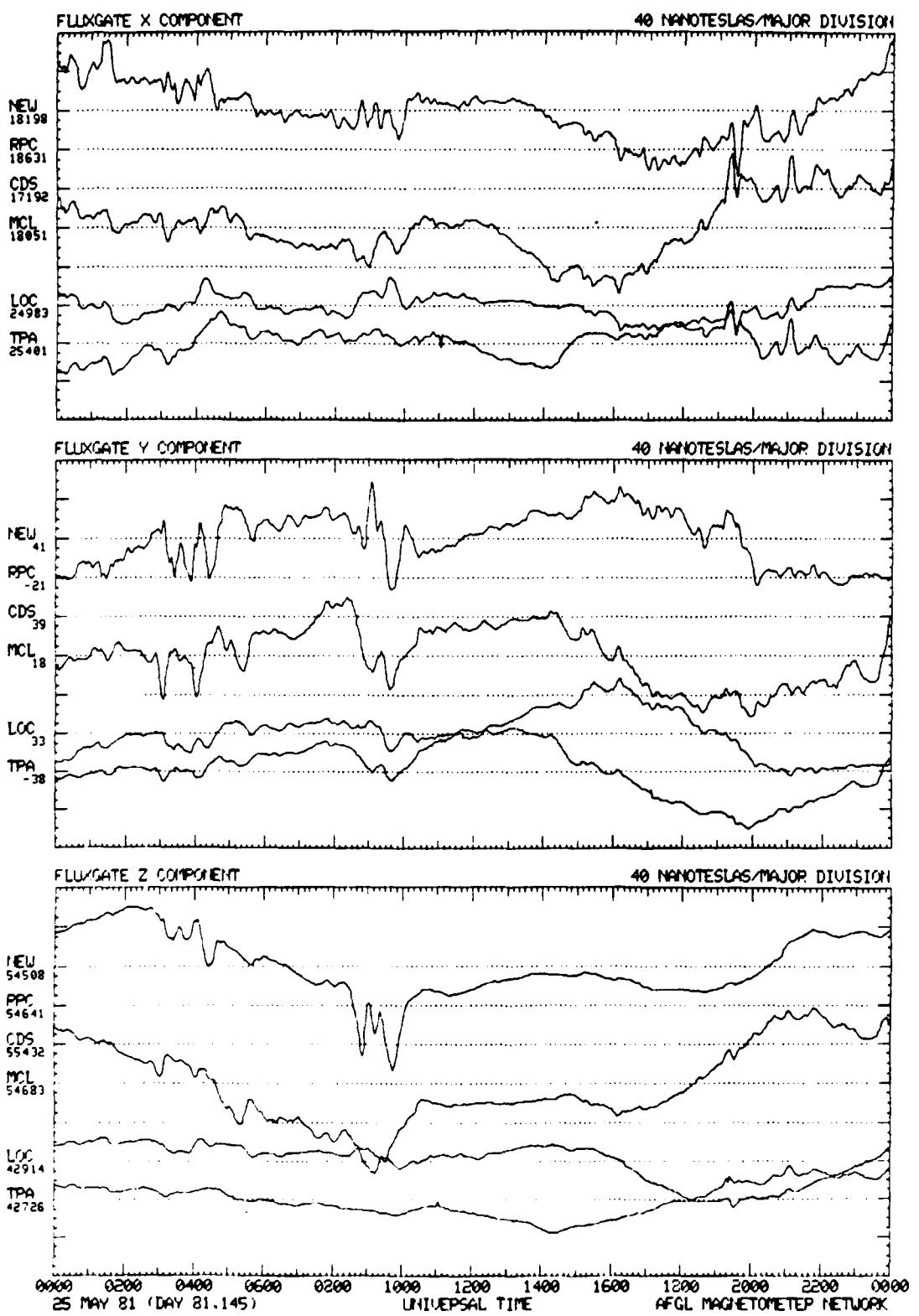
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20 MAY 81 (DAY 81.140) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

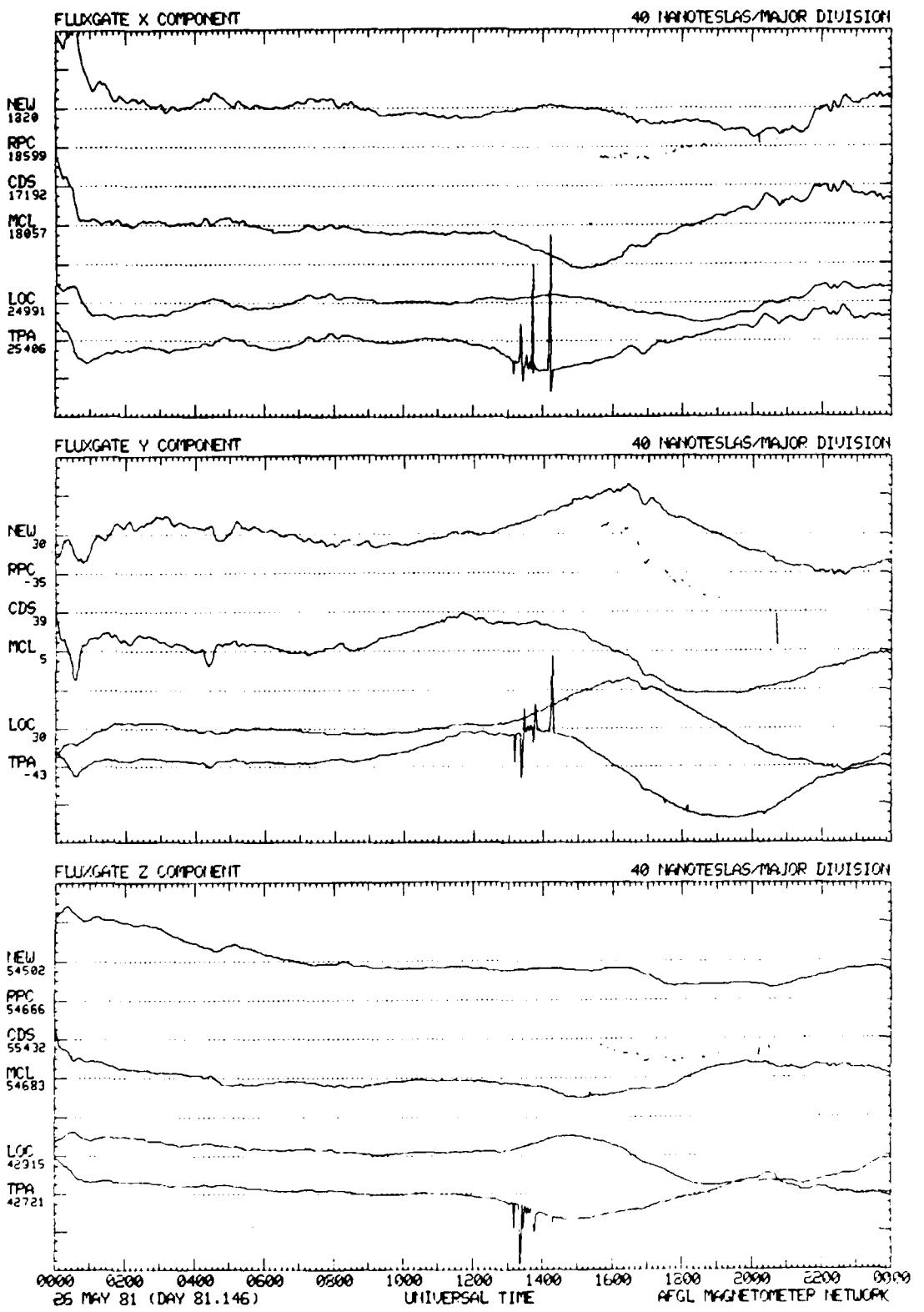


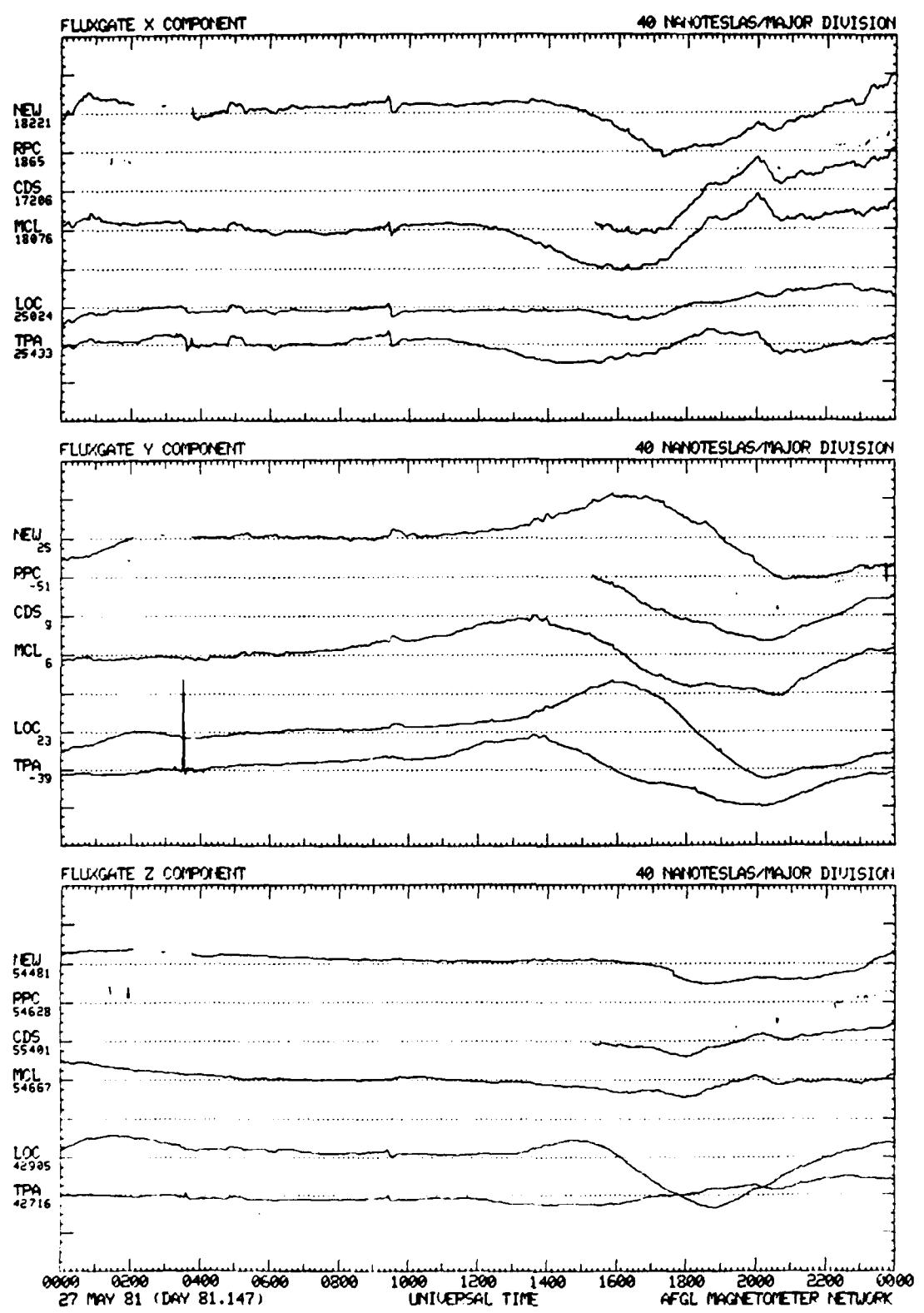












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18223RPC
18639CDS
17206MCL
18075LOC
25020TPA
25440

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
41RPC
-37CDS
34MCL
12LOC
32TPA
-39

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54513RPC
54661CDS
55398MCL
54655LOC
4-124TPA
427140000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 MAY 81 (DAY 81.148) UNIVERAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18226
RPC
18656
CDS
17210
MCL
18075
LOC
25026
TPA
25442

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
44
PPC
-37
CDS
32
MCL
3
LOC
32
TPA
-40

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54511
PPC
54629
CDS
55291
MCL
54654
LOC
45283
TPA
46114

0000 0400 0800 0200 1000 1200 1400 1600 1800 2000 2200 0000
29 MAY 21 (DAY 21.149) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18228
PPC
18652
CDS
17214
MCL
18879
LOC
25823
TPA
25438

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
45
PPC
-48
CDS
28
MCL
3
LOC
38
TPA
-38

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54506
PPC
54523
CDS
55397
MCL
54661
LOC
43397
TPA
427880000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
30 MAY 21 (DAY 81.150) UNIVERAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18231RPC
18652CDS
17218MCL
18680LOC
25627TPA
25449

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
45RPC
-40CDS
29MCL
18LOC
35TPA
-22

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54586PPC
54623CDS
55396MCL
54649LOC
46299TPA
4278500000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 24000
31 MAY 81 (DAY 81.151) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18235CDS
17222MCL
18082LOC
25033TPA
25452

FLUXGATE Y COMPONENT

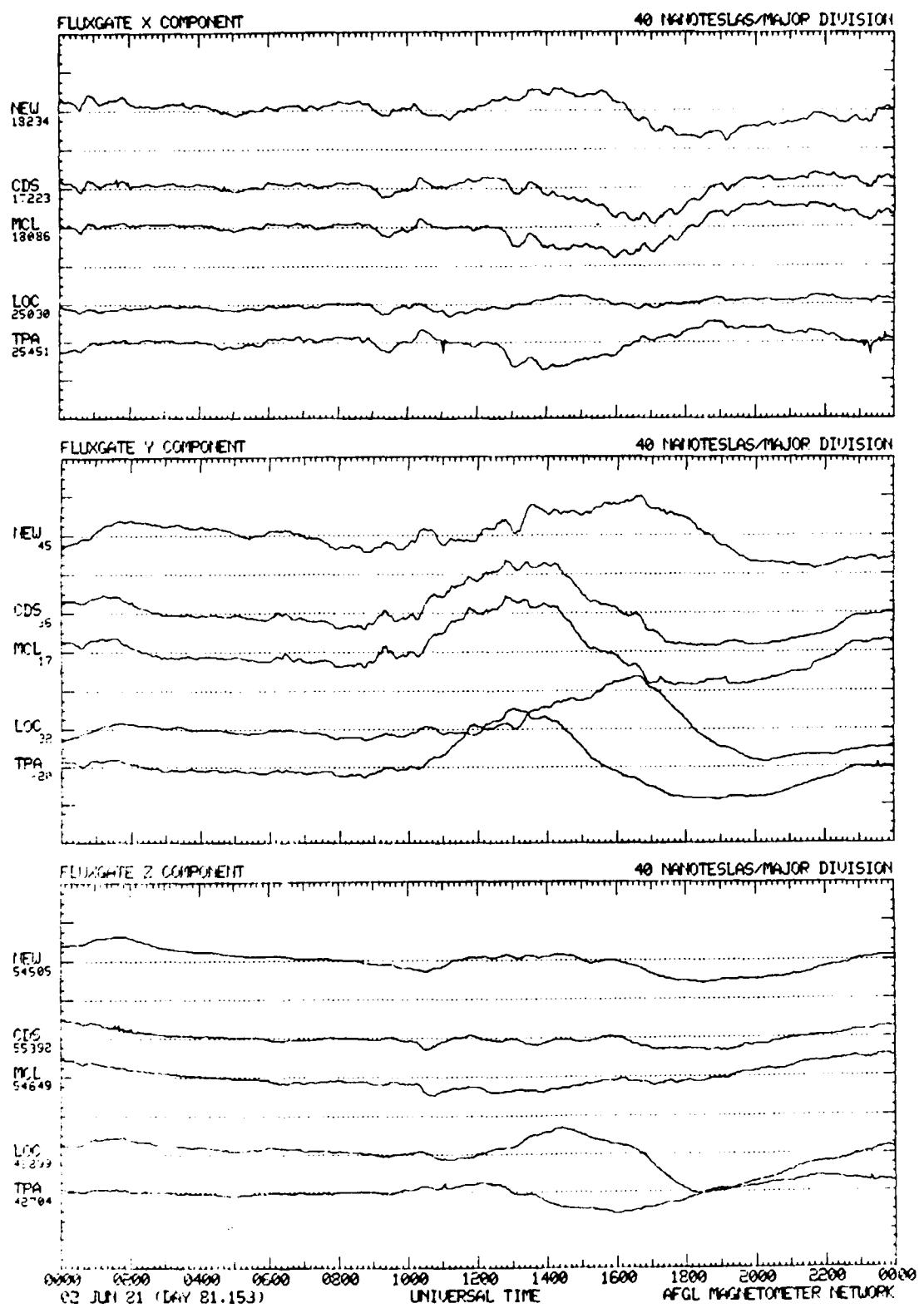
40 NANOTESLAS/MAJOR DIVISION

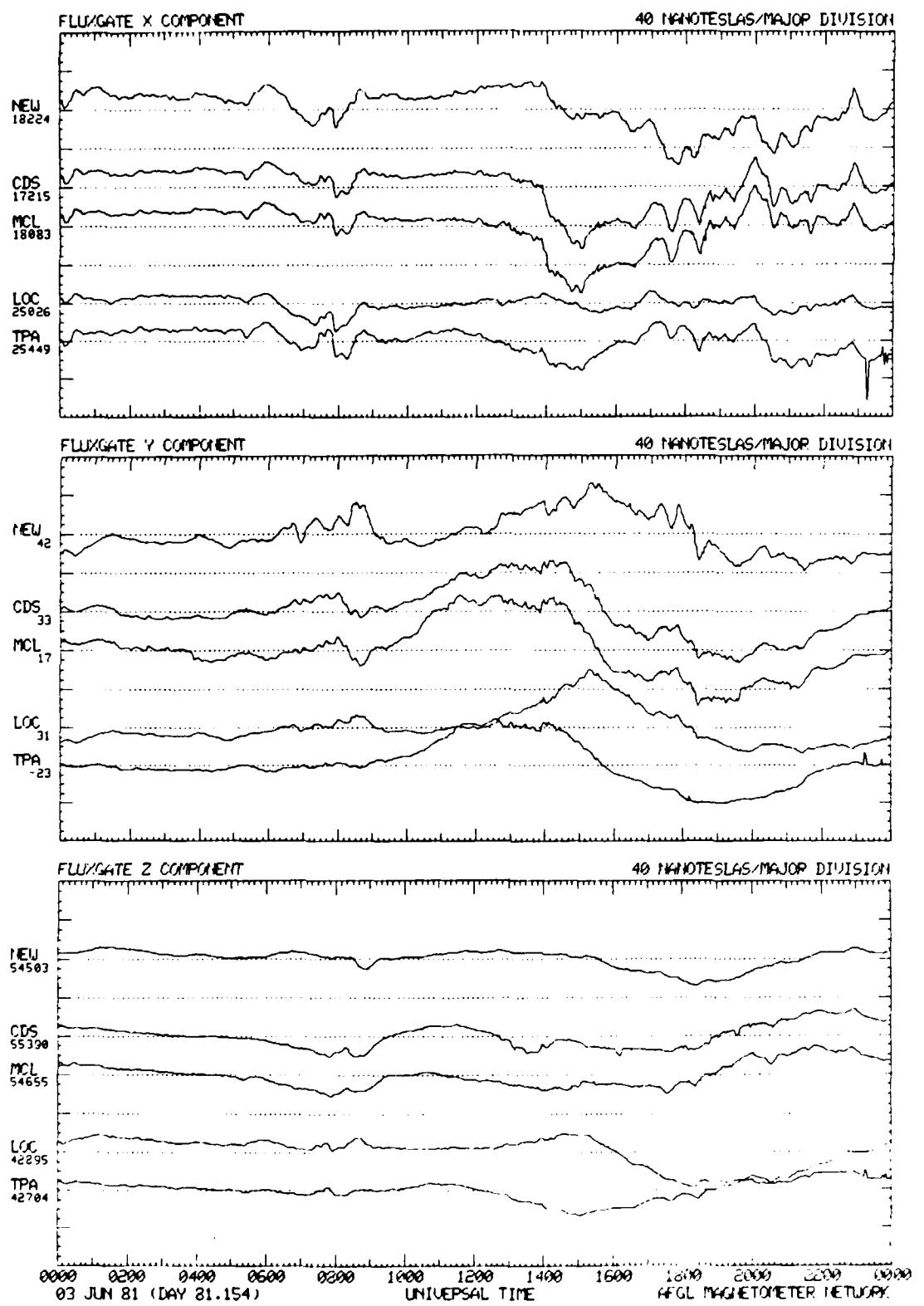
NEW
40CDS
31MCL
10LOC
27TPA
-26

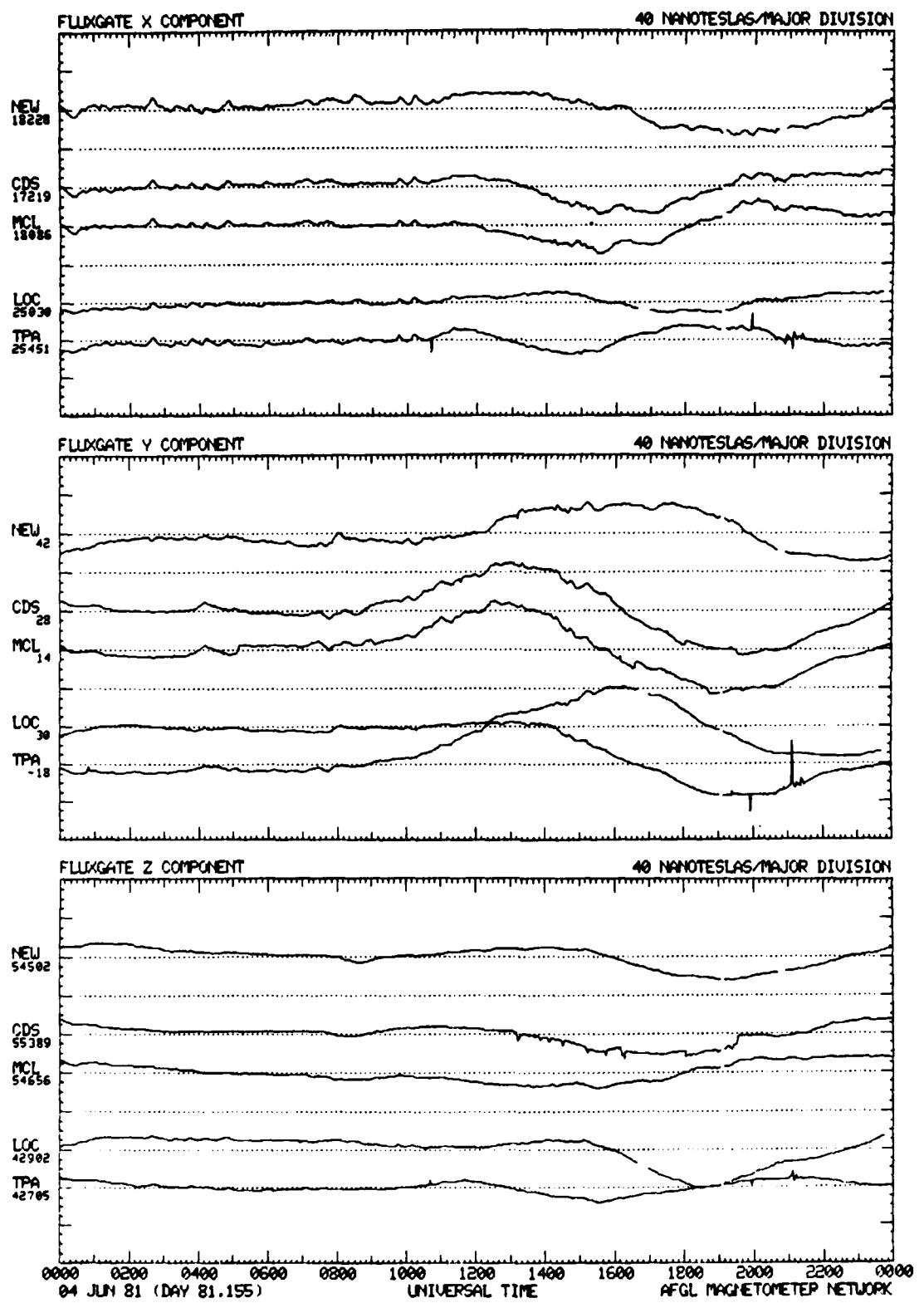
FLUXGATE Z COMPONENT

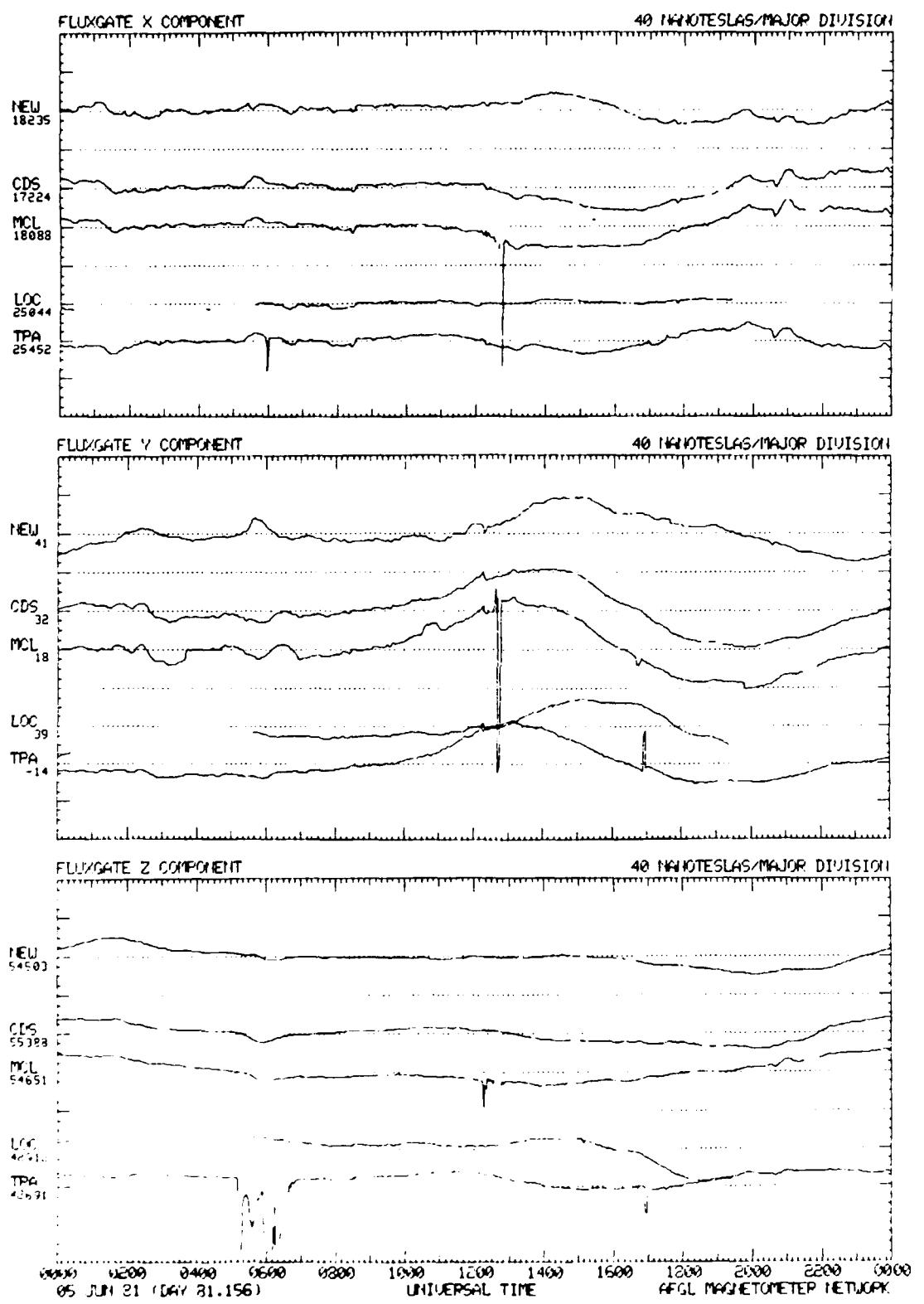
40 NANOTESLAS/MAJOR DIVISION

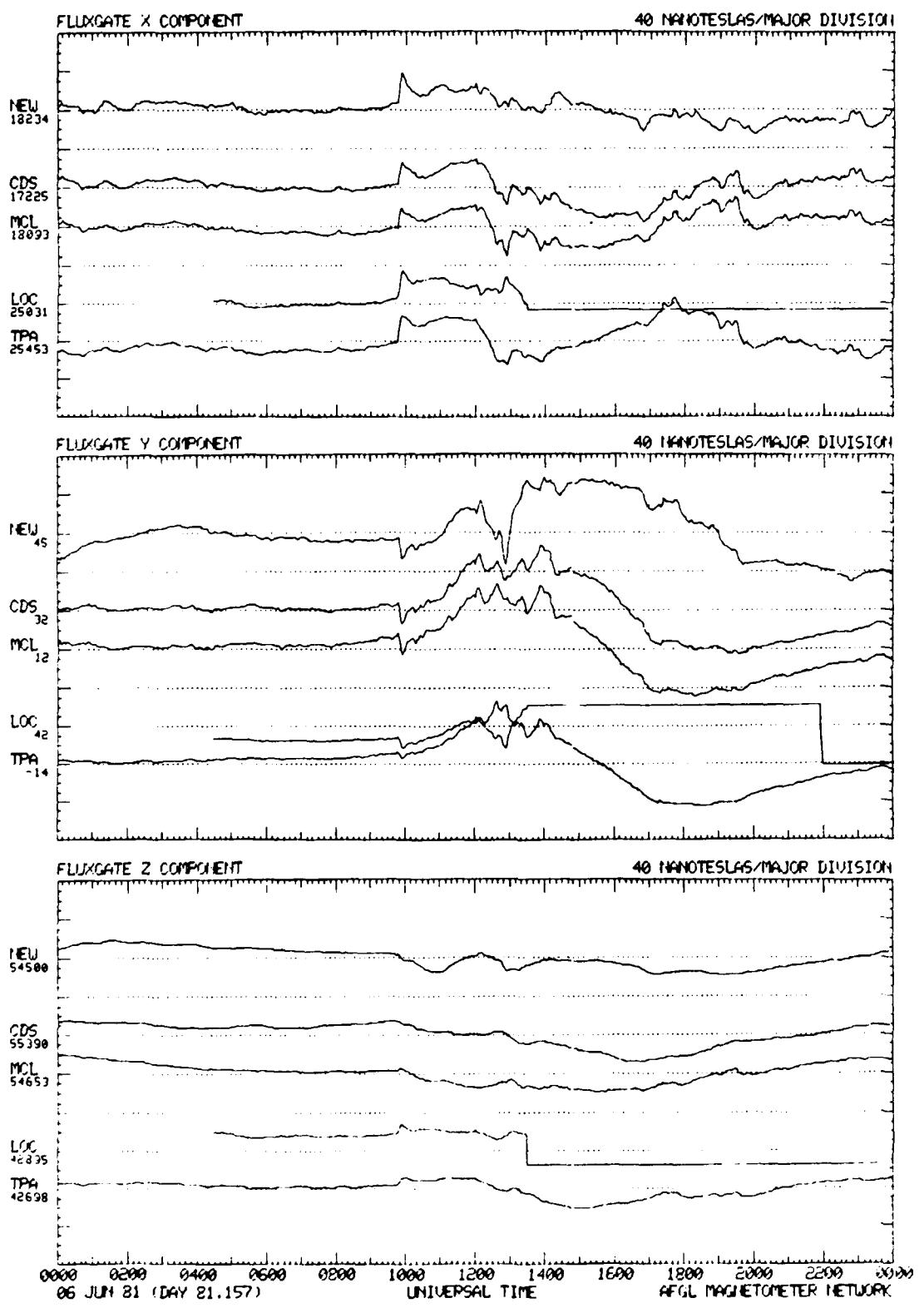
NEW
18235CDS
17222MCL
18082LOC
25033TPA
254520000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
01 JUN 81 (DAY 21.152) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

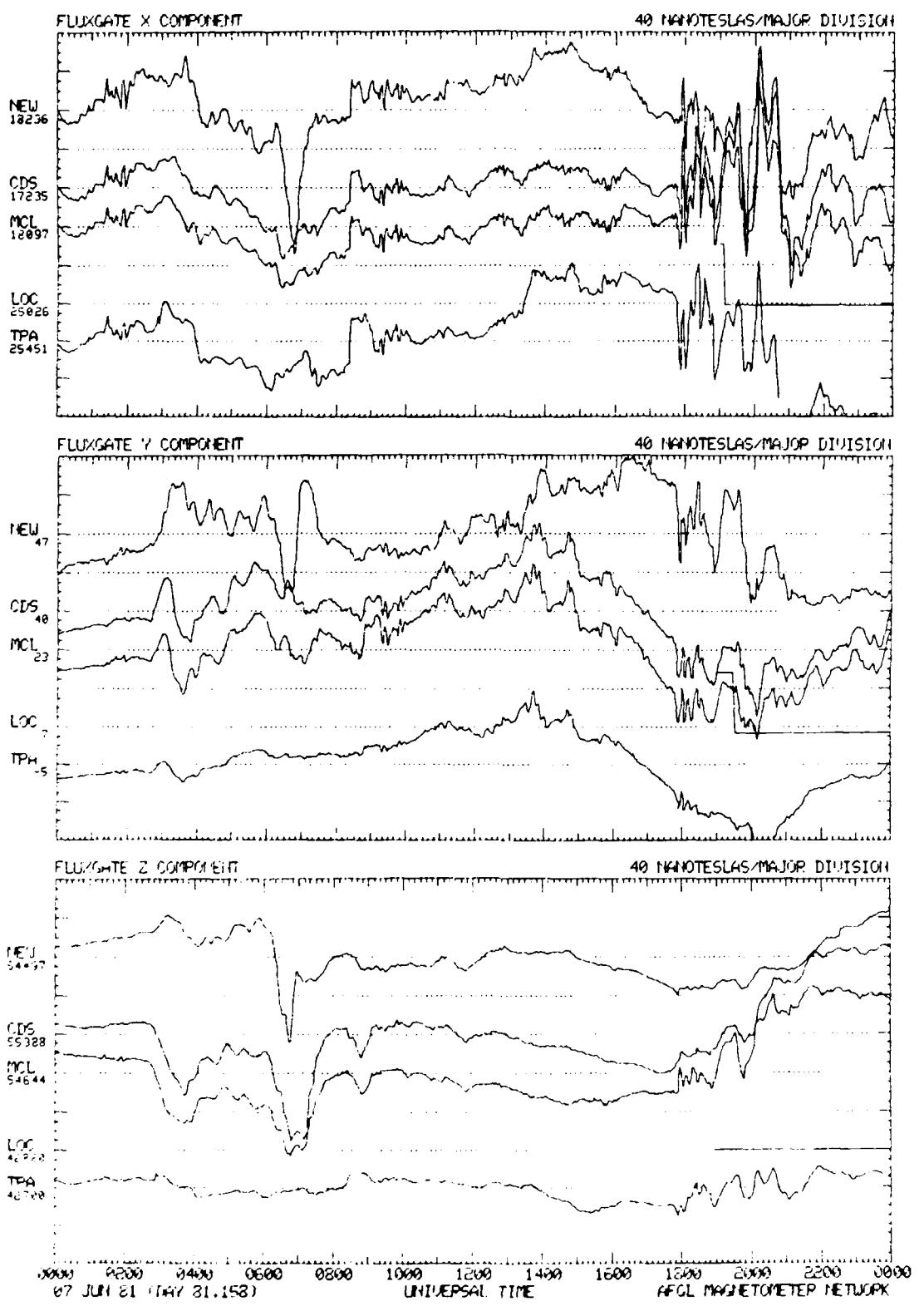


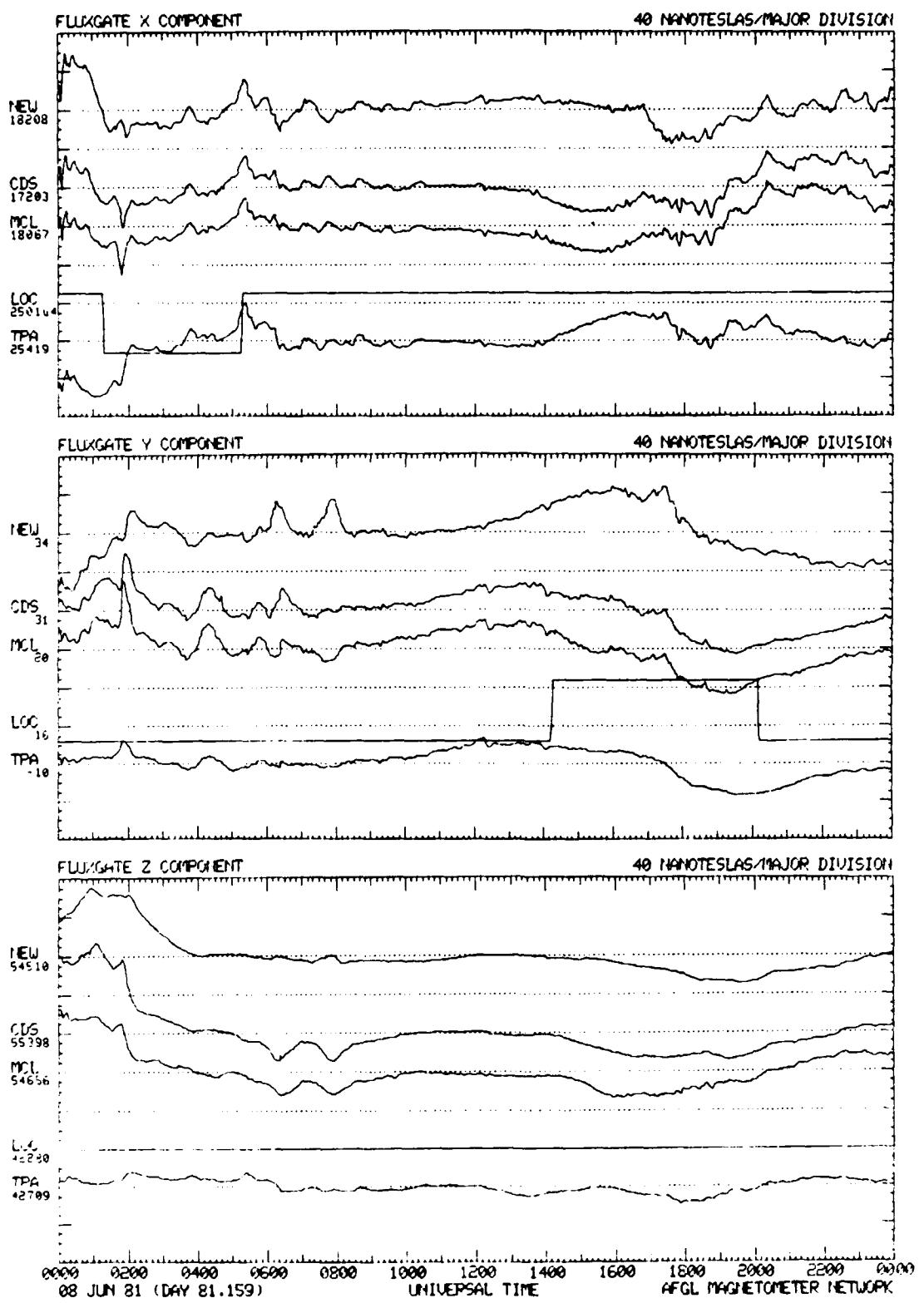


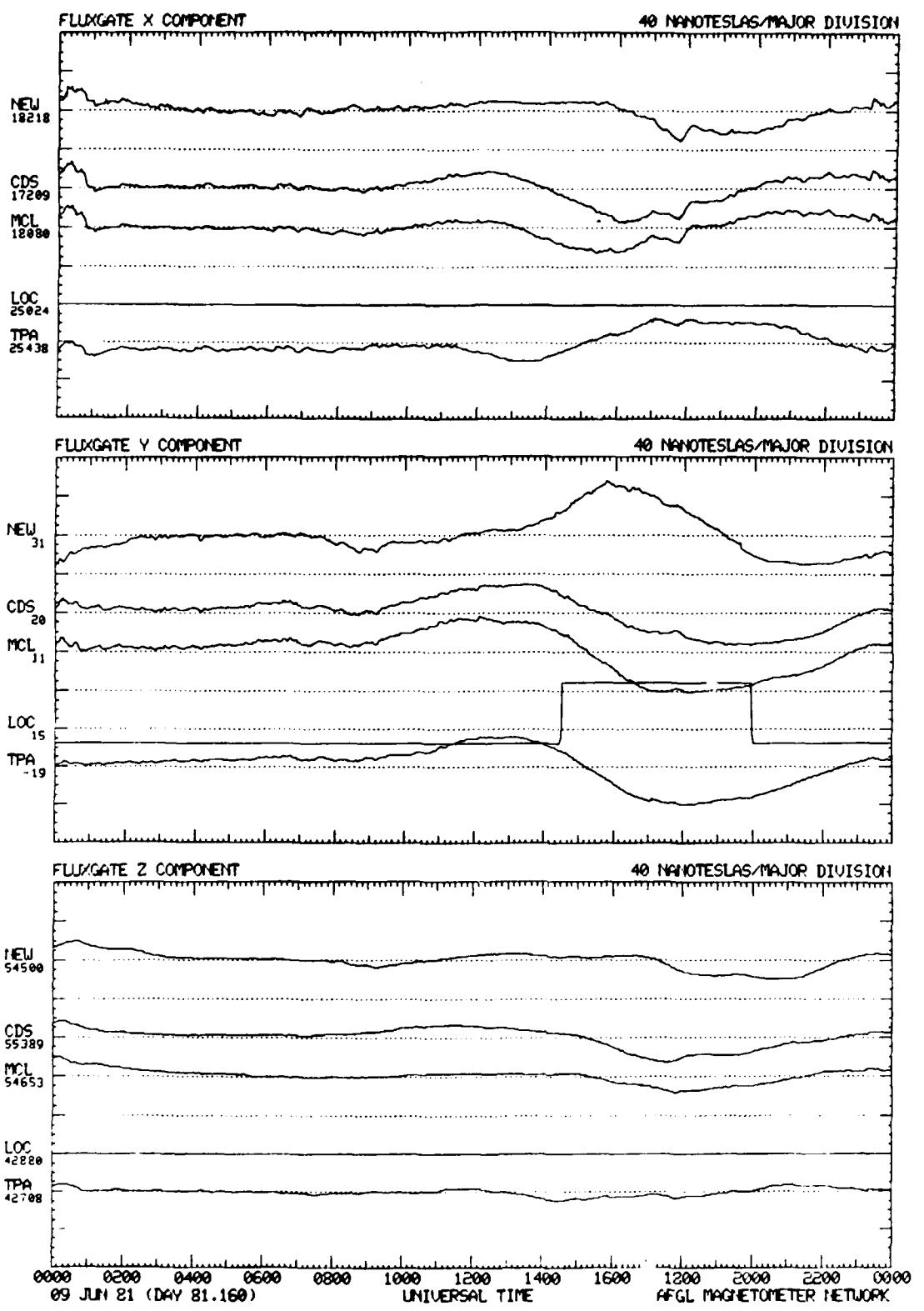


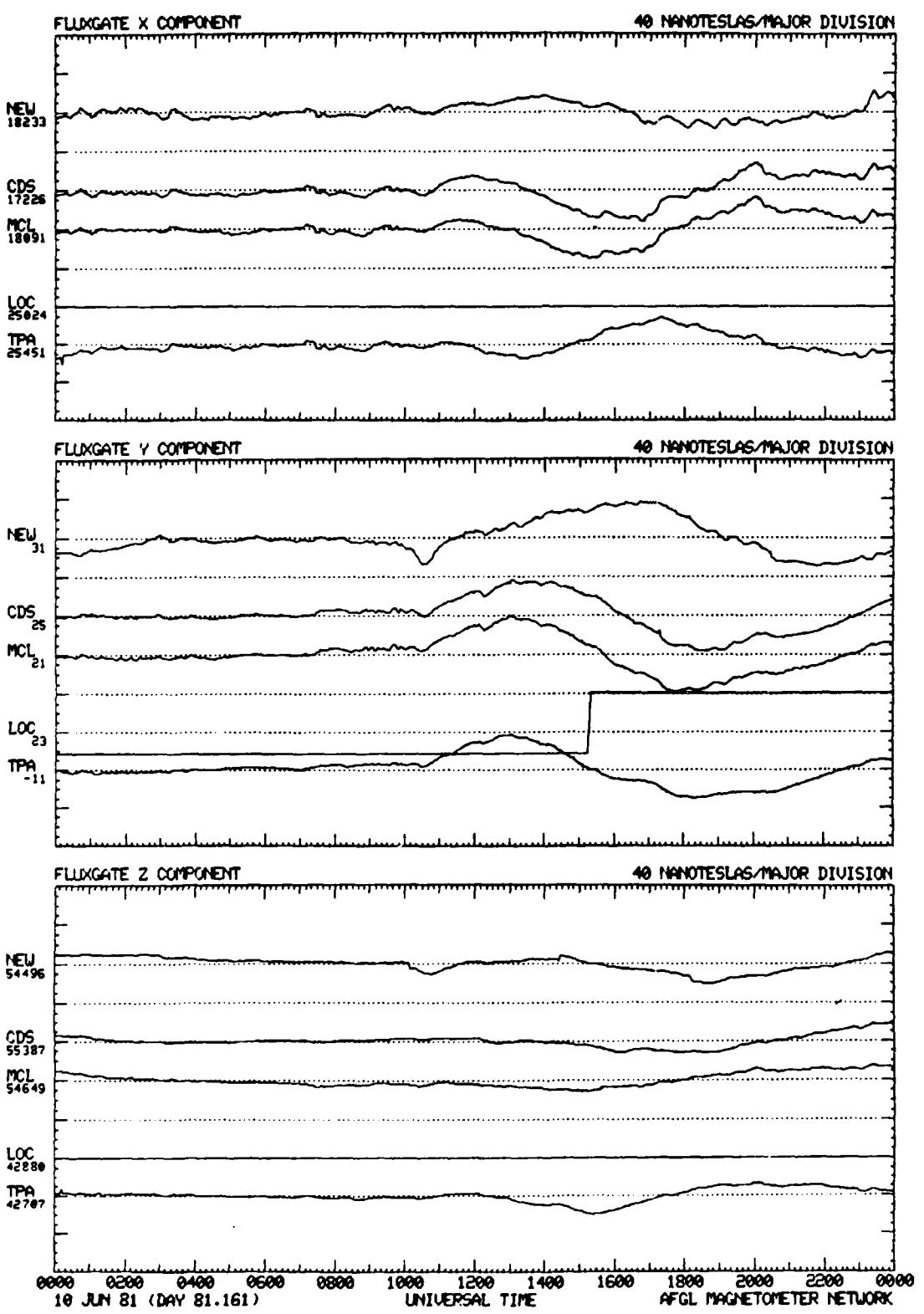


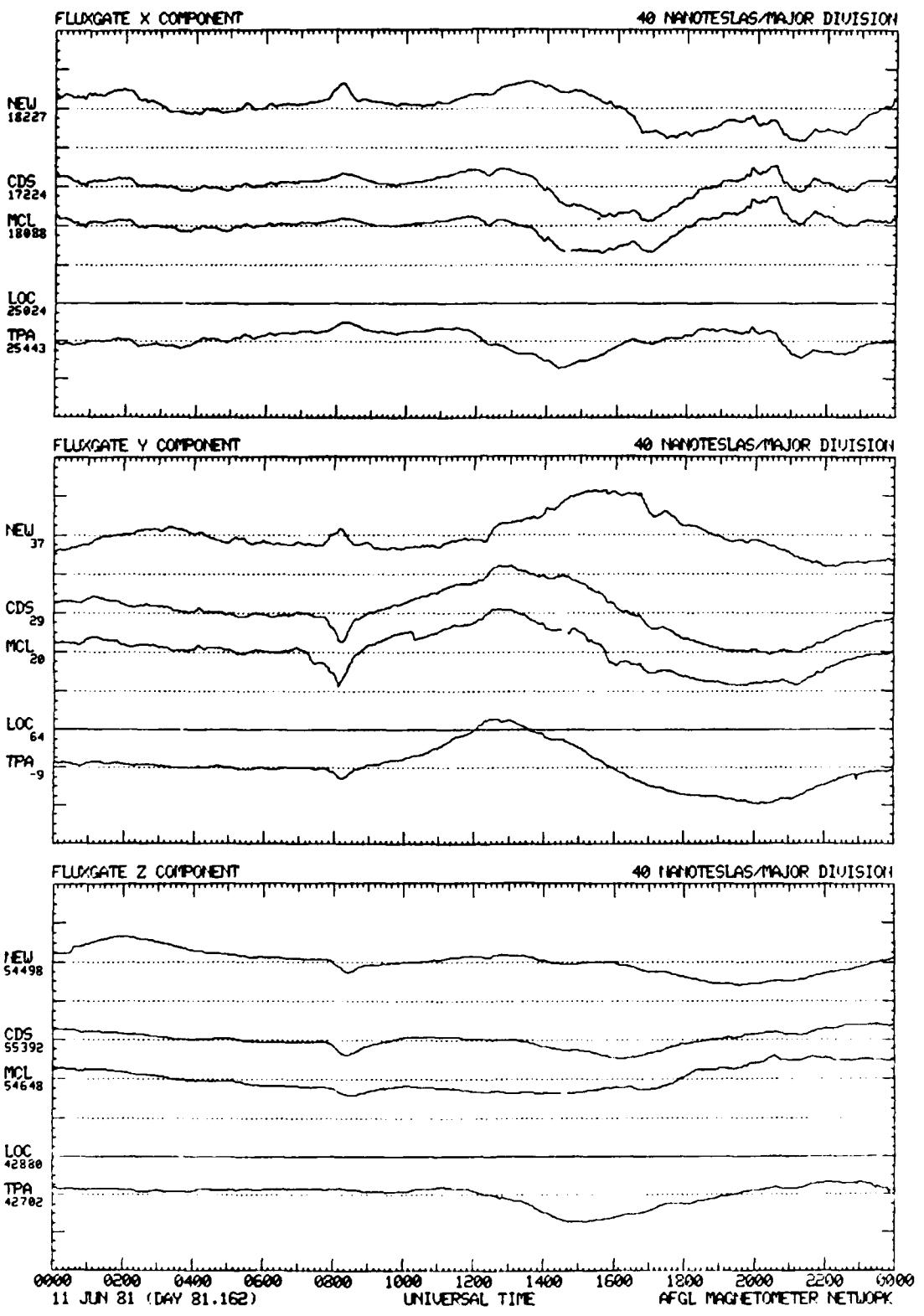


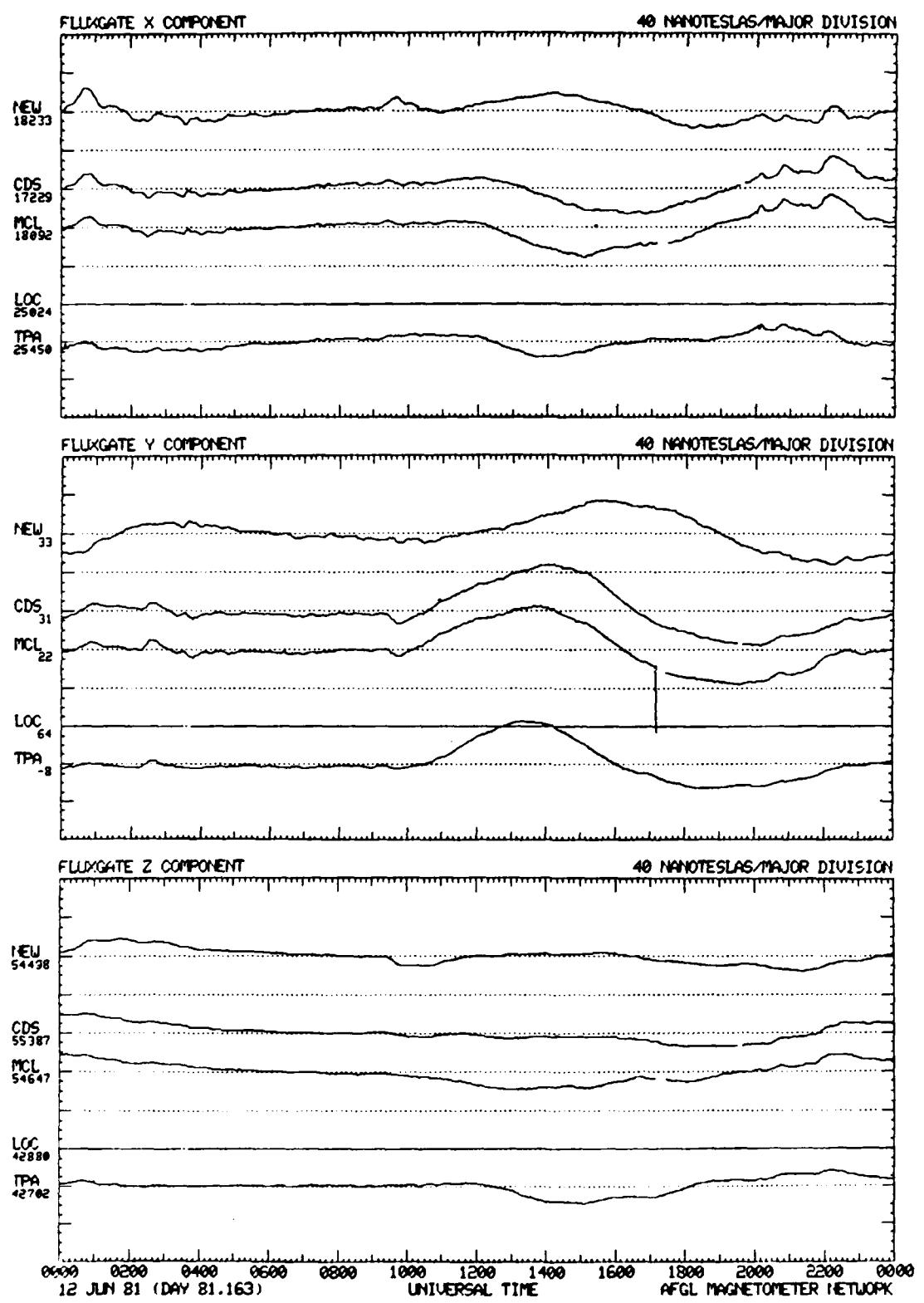


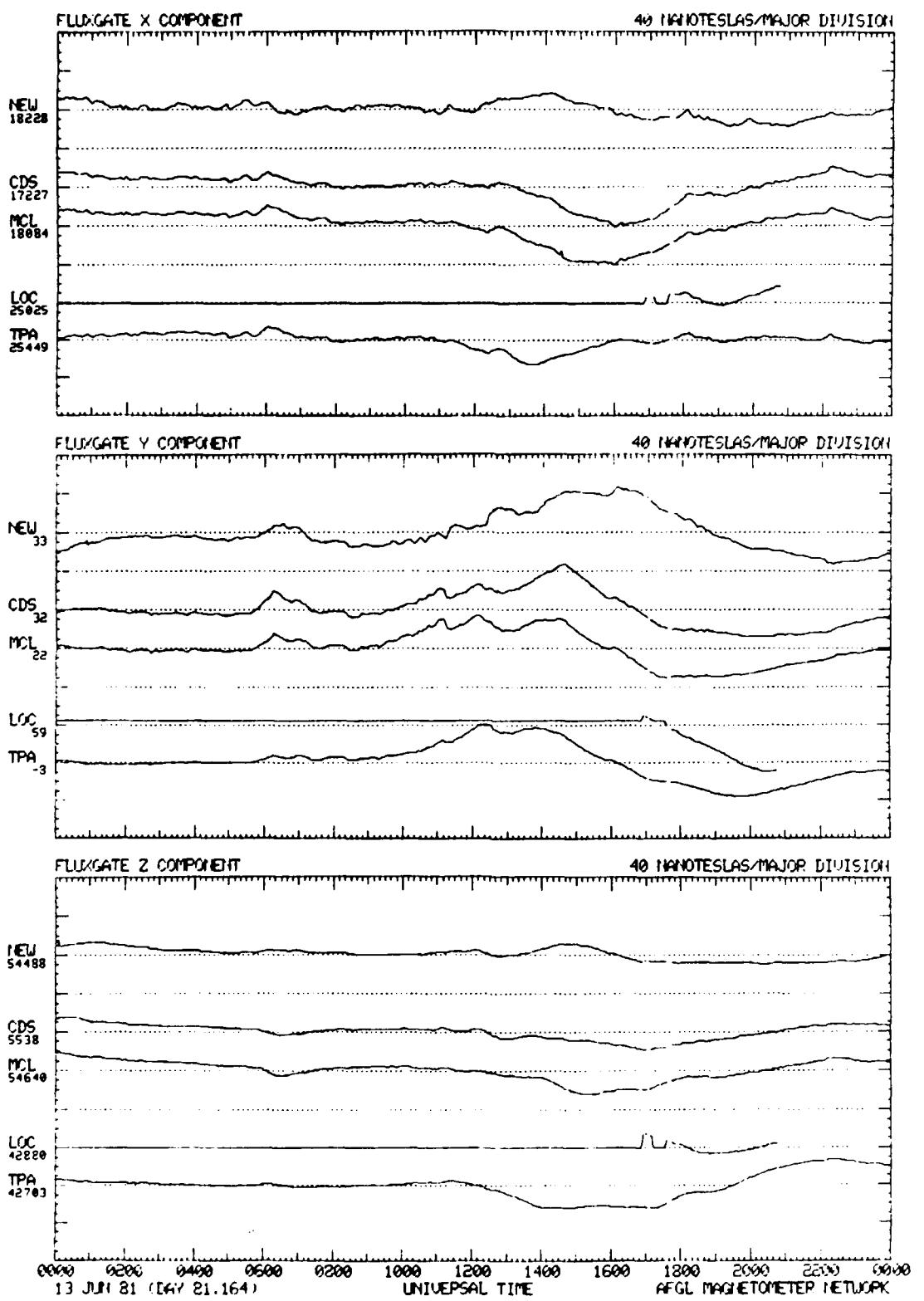


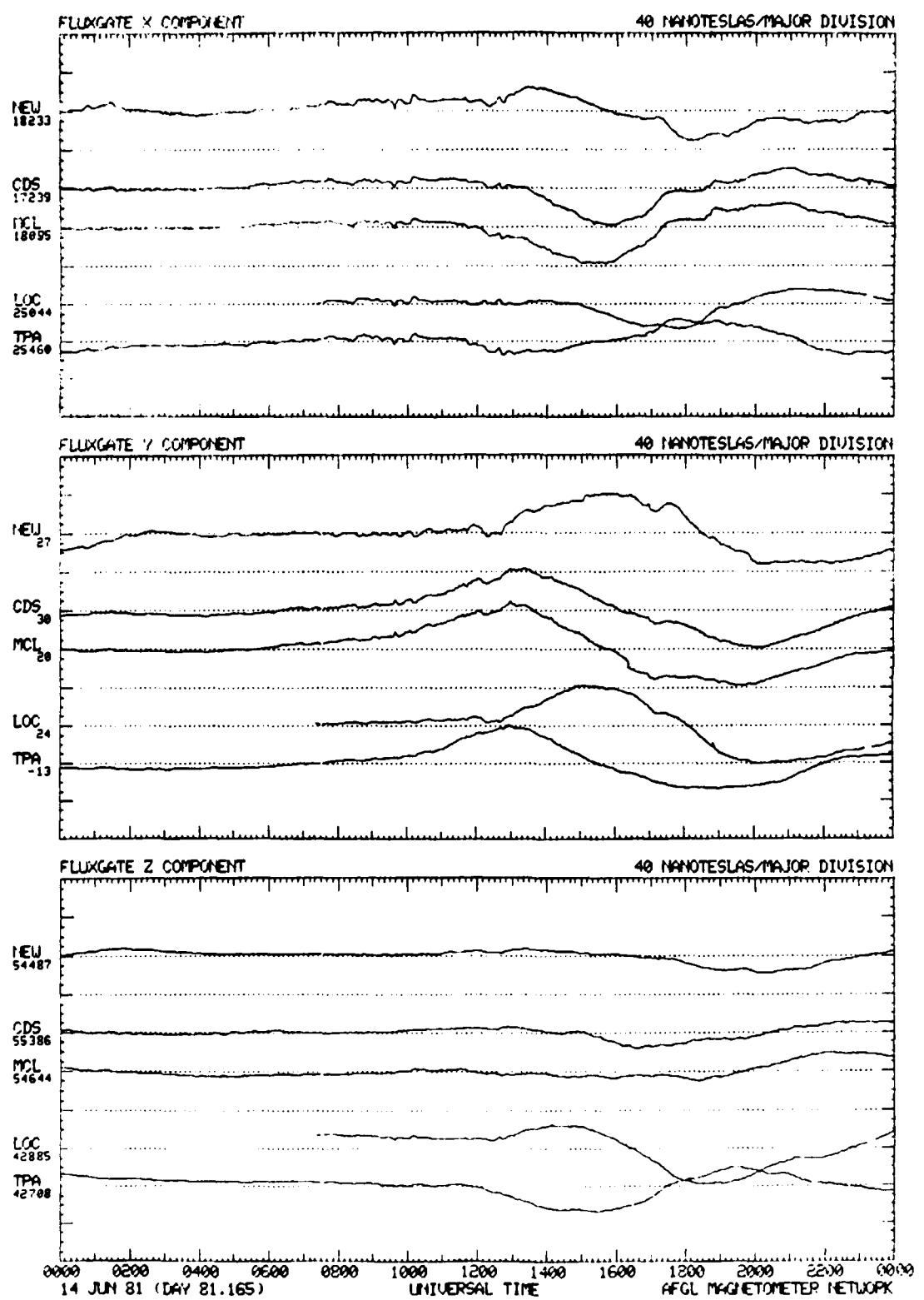


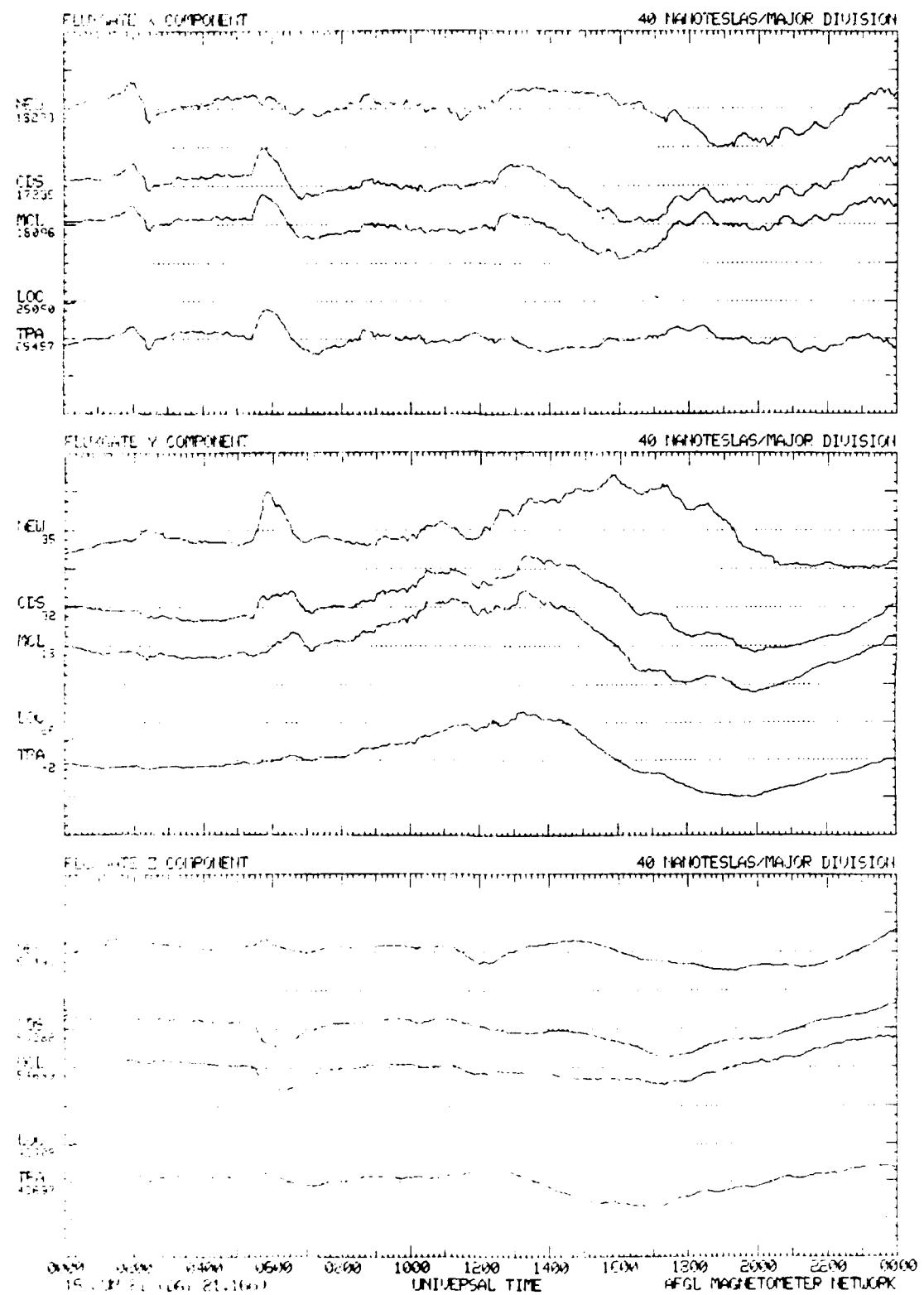






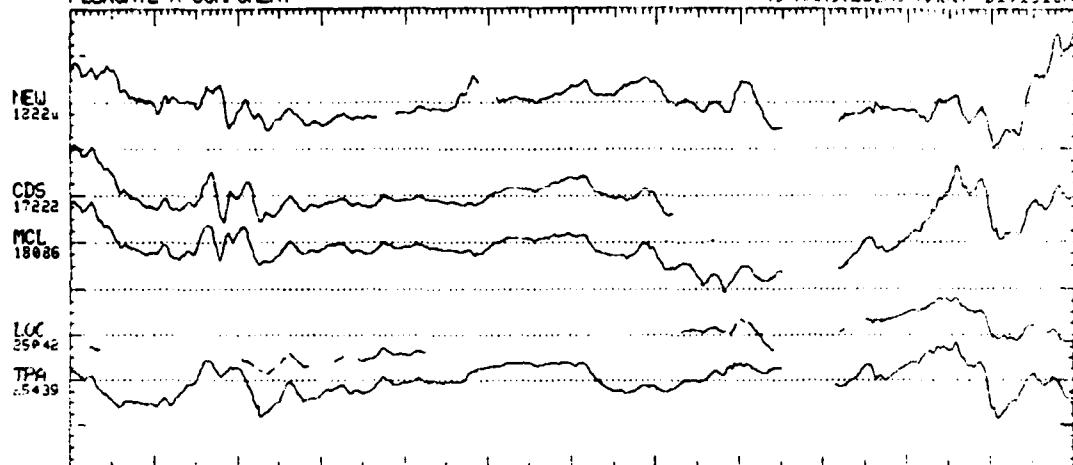






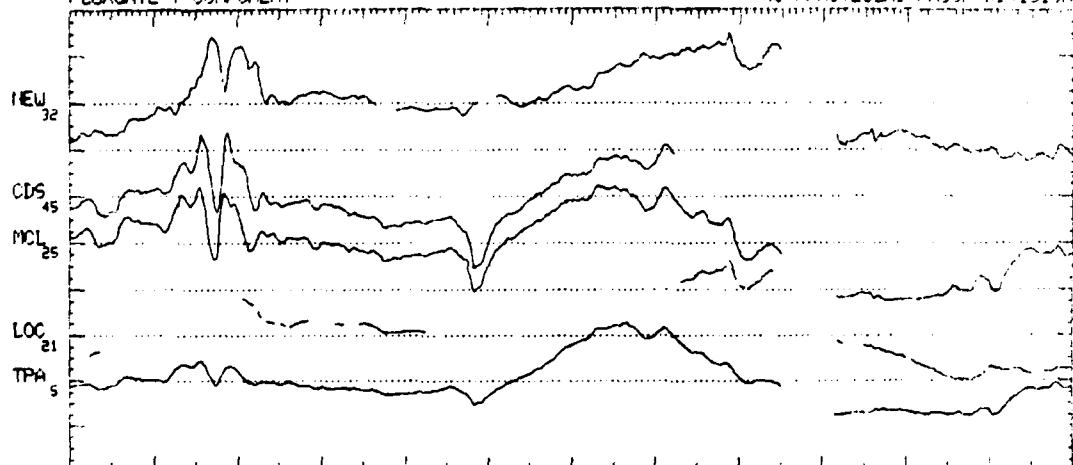
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



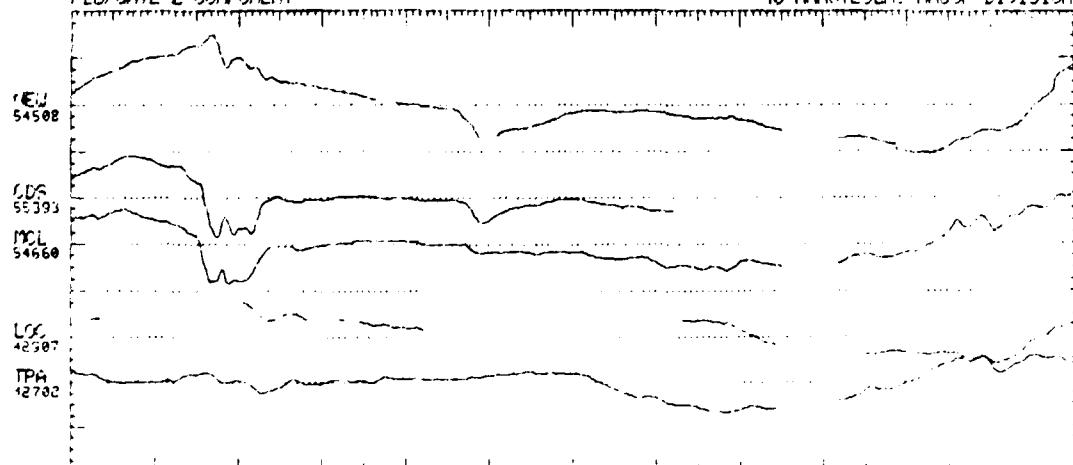
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

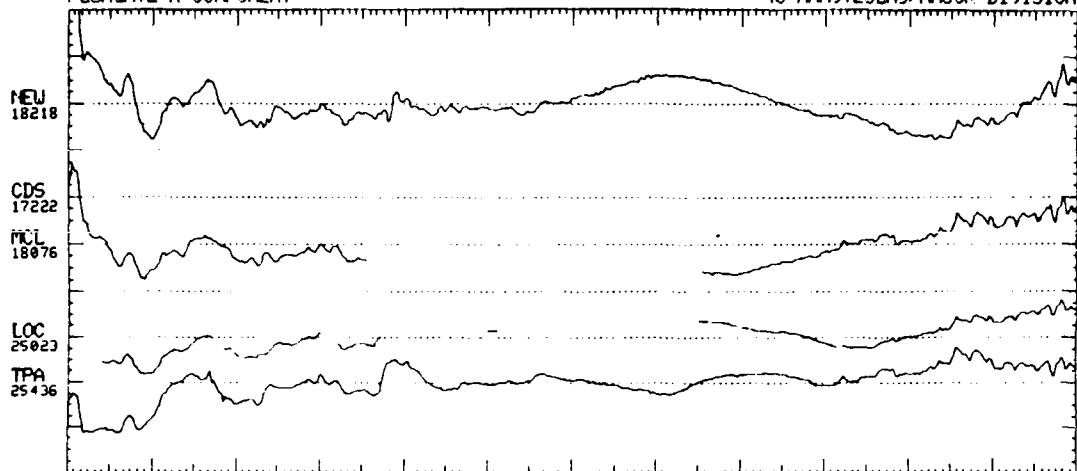
40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000
16 JUN 81 (D47 31.167) UNIVERSAL TIME AFGL MAGNETOMETER (NETWFA)

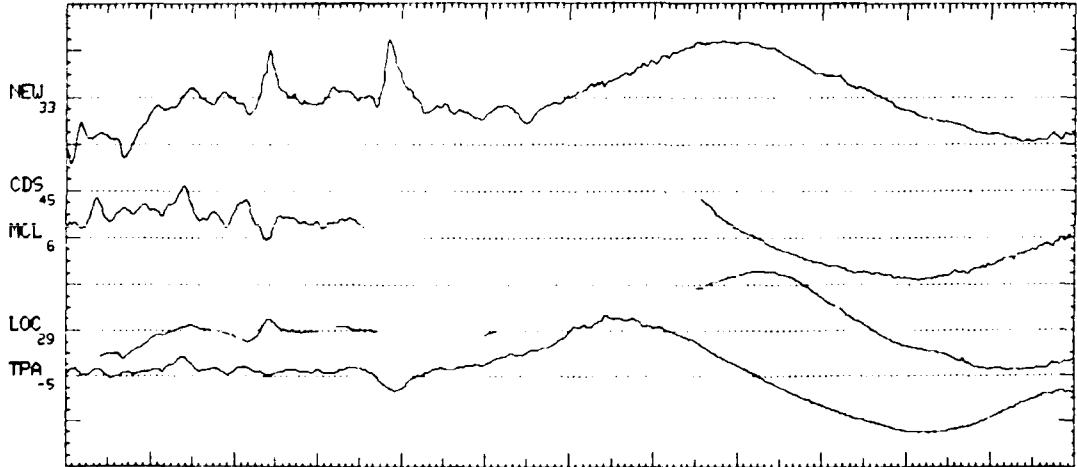
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



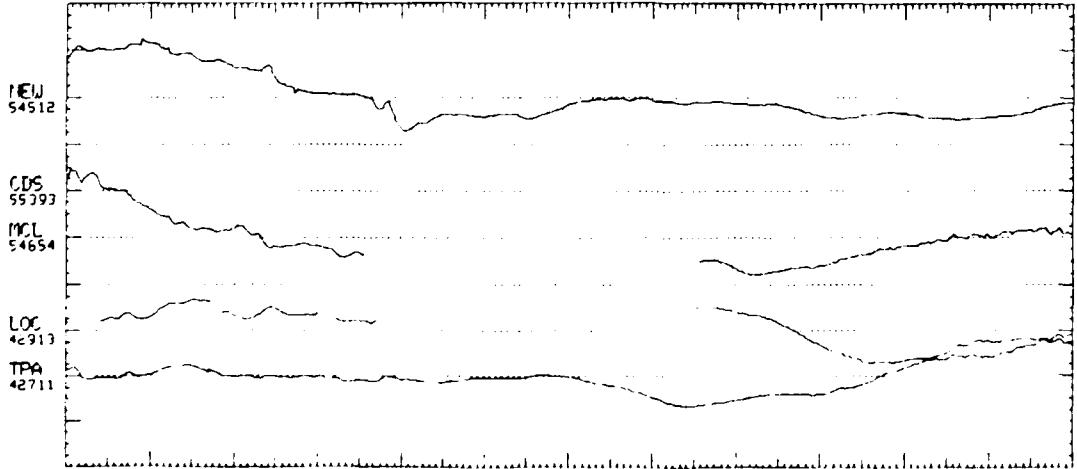
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

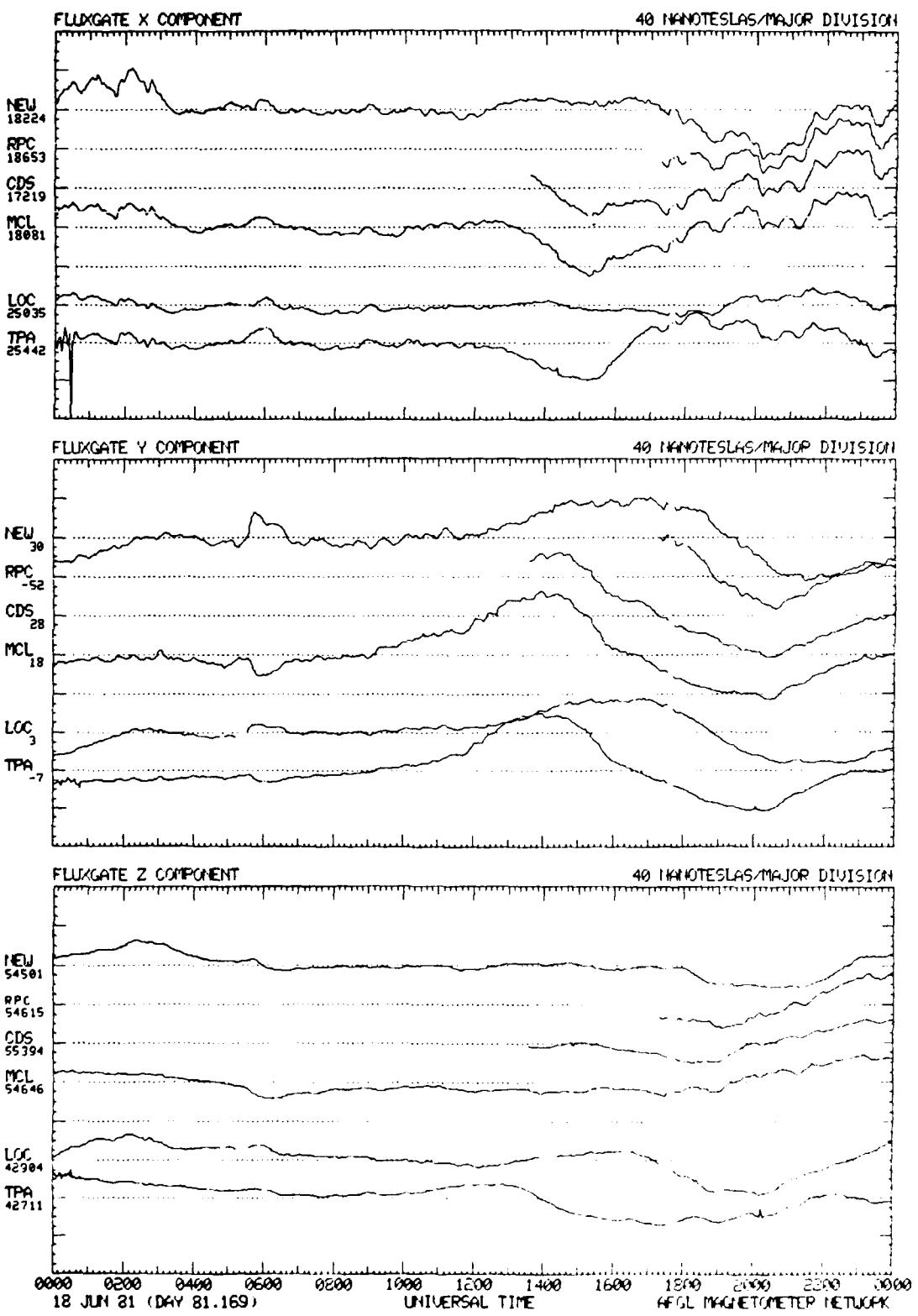


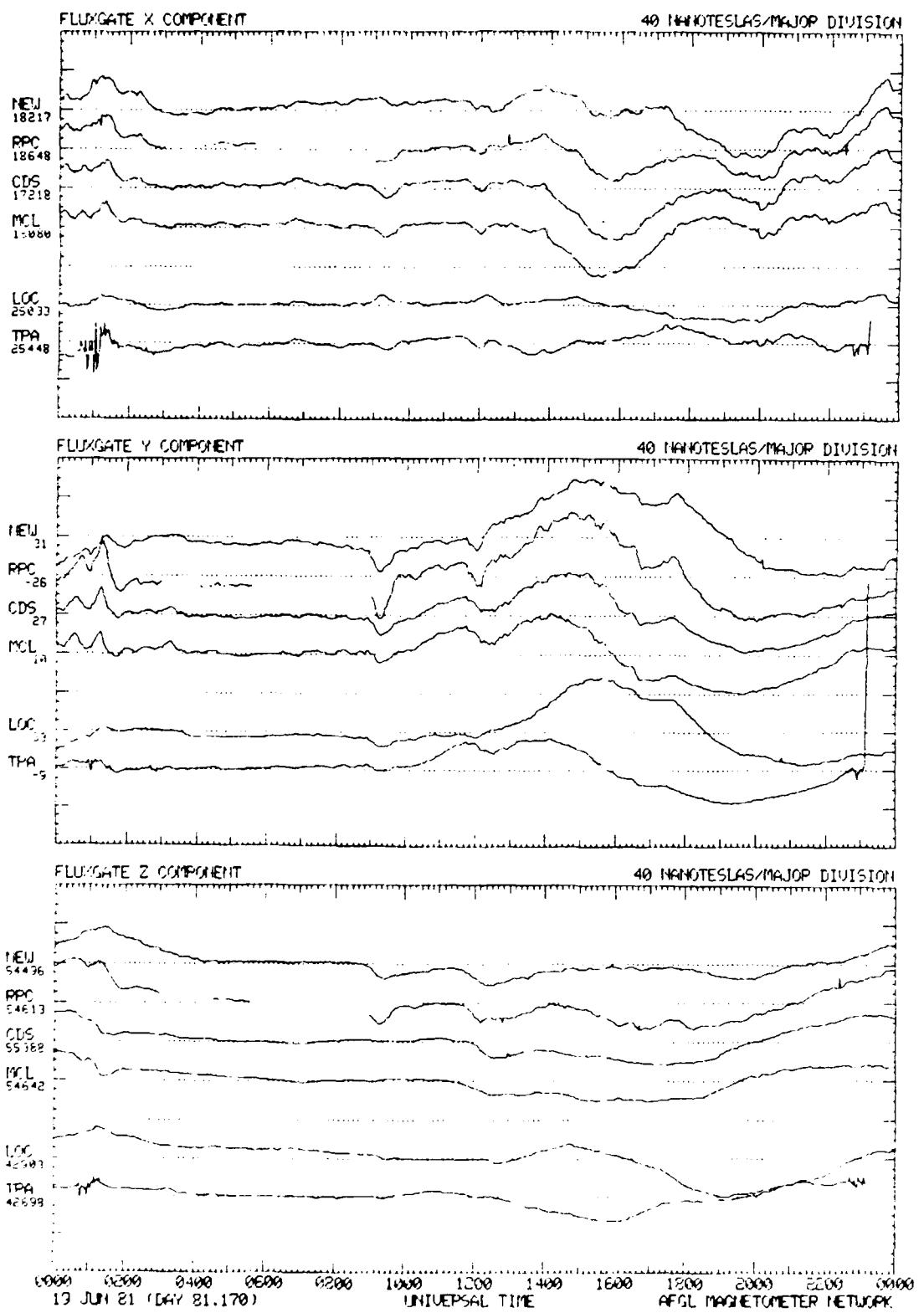
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400 0000
17 JUN 81 (DAY 81.168) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18227RPC
18659CDS
17218MCL
18076LOC
25046TPA
25454

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
35RPC
-24CDS
32MCL
1LOC
34TPA
-40

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54496RPC
54616CDS
55383MCL
54631LOC
42304TPA
426910000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 JUN 81 (DAY 81.171) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12232
PPC
16667
CDS
17225
MCL
18086LOC
25047
TPA
25459

FLUXGATE Y COMPONENT

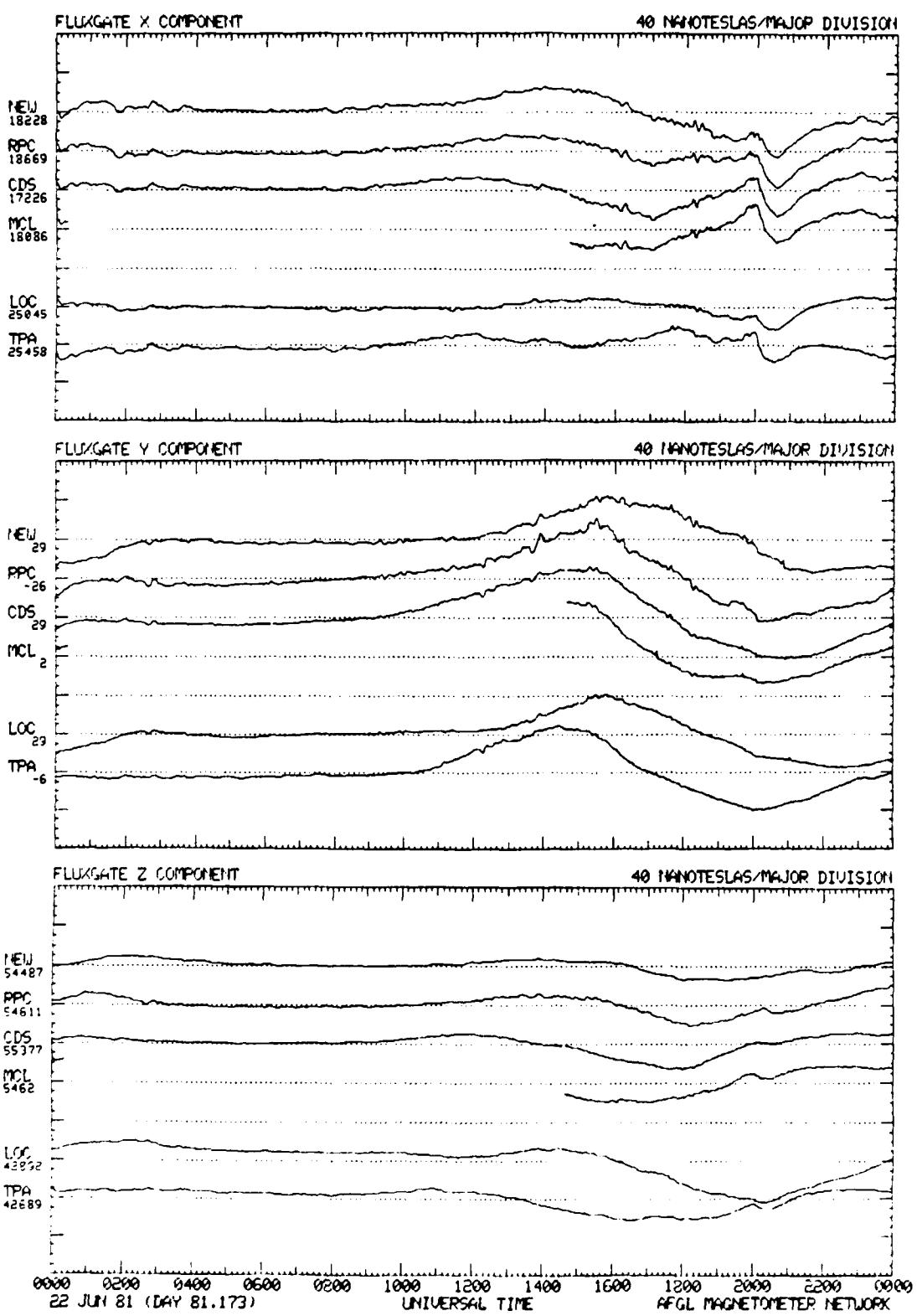
40 NANOTESLAS/MAJOR DIVISION

NEU
30
PPC
-28
CDS
27
MCL
14LOC
30
TPA
-6

FLUXGATE Z COMPONENT

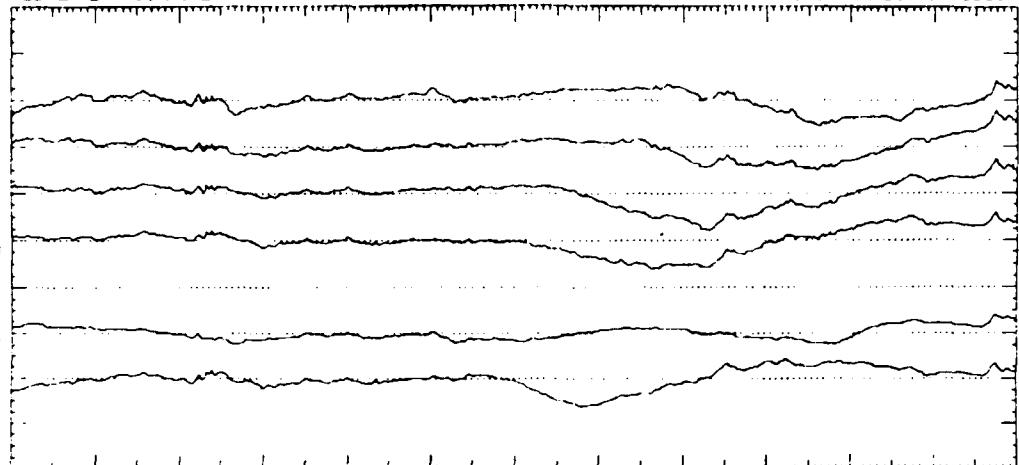
40 NANOTESLAS/MAJOR DIVISION

NEU
54491
PPC
54611
CDS
55379
MCL
54637LOC
45132
TPA
466400000 0200 0400 0600 0800 1000 1200 1400 1600
21 JUL 21 (DAY 21.172)0000 0200 0400 0600 0800 1000 1200 1400 1600
UNIVERSAL TIME0000 0200 0400 0600 0800 1000 1200 1400 1600
AFGL MAGNETOGRAM NETWORK



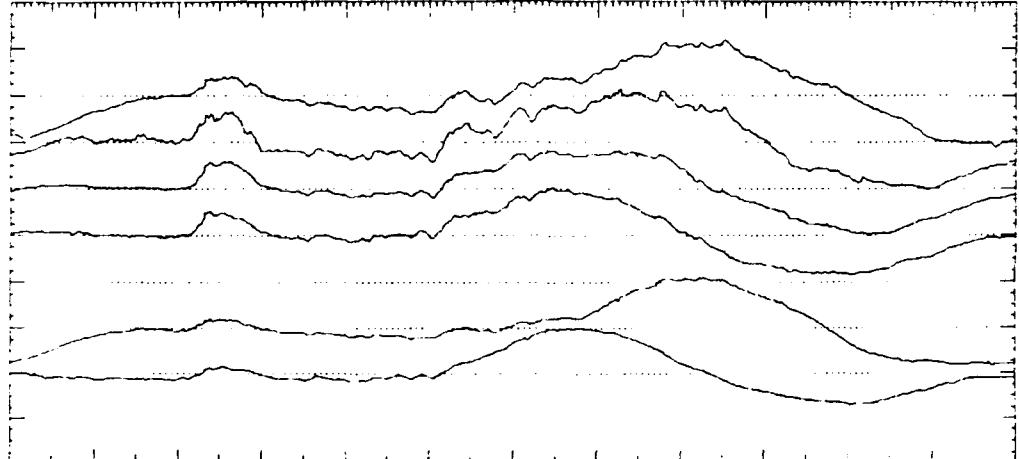
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13235
RPC
12676
CDS
17231
MCL
18093LOC
25048
TPA
25458

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
35
RPC
26
CDS
25
MCL
10LOC
34
TPA
7

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54427
RPC
5461
CDS
55377
MCL
54631LOC
42557
TPA
426320000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 JUN 21 (DAY 21.174)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18237PPC
18681CDS
17231MCL
18997LOC
25646TPA
25466

FLUXGATE Y COMPONENT

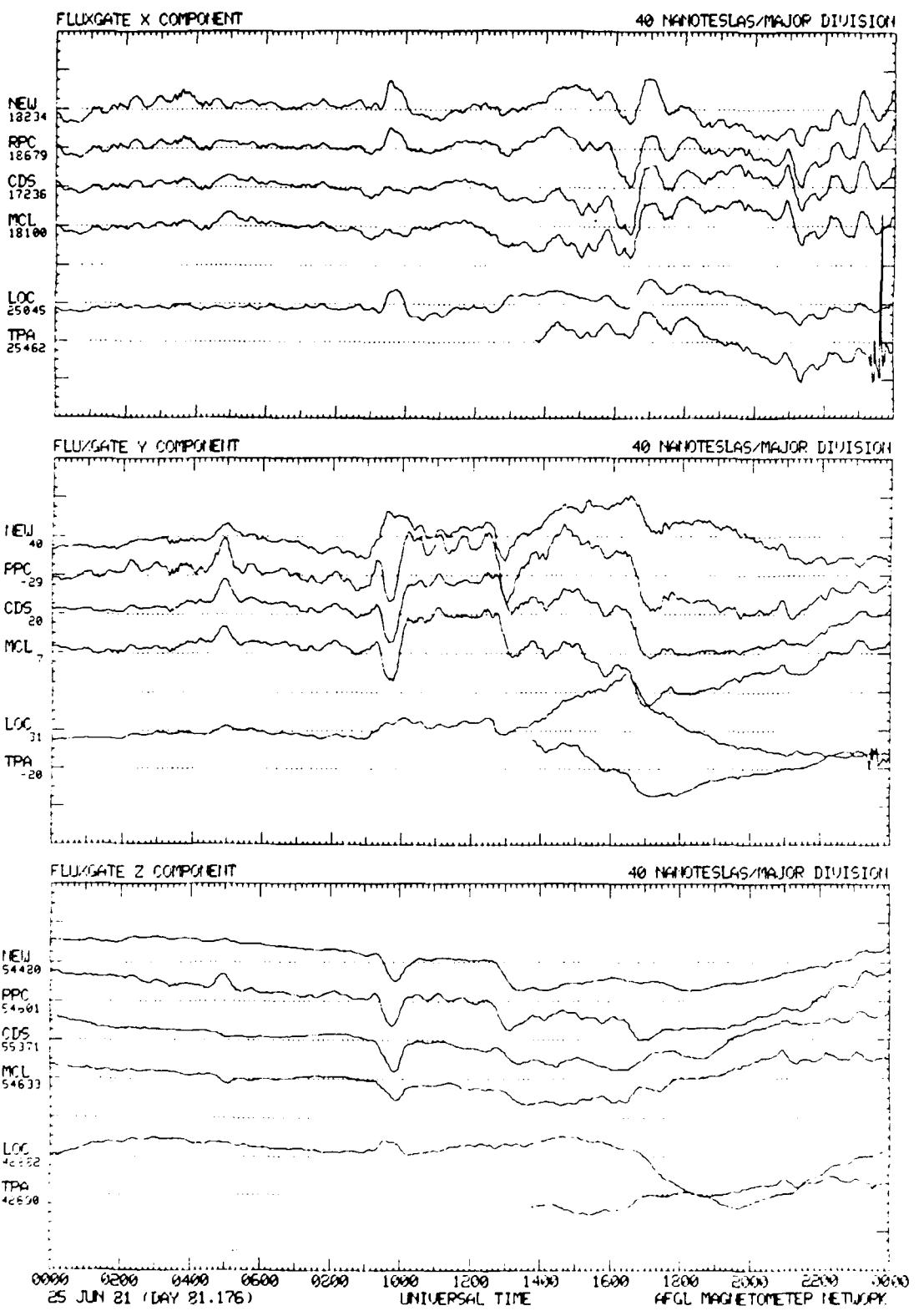
40 NANOTESLAS/MAJOR DIVISION

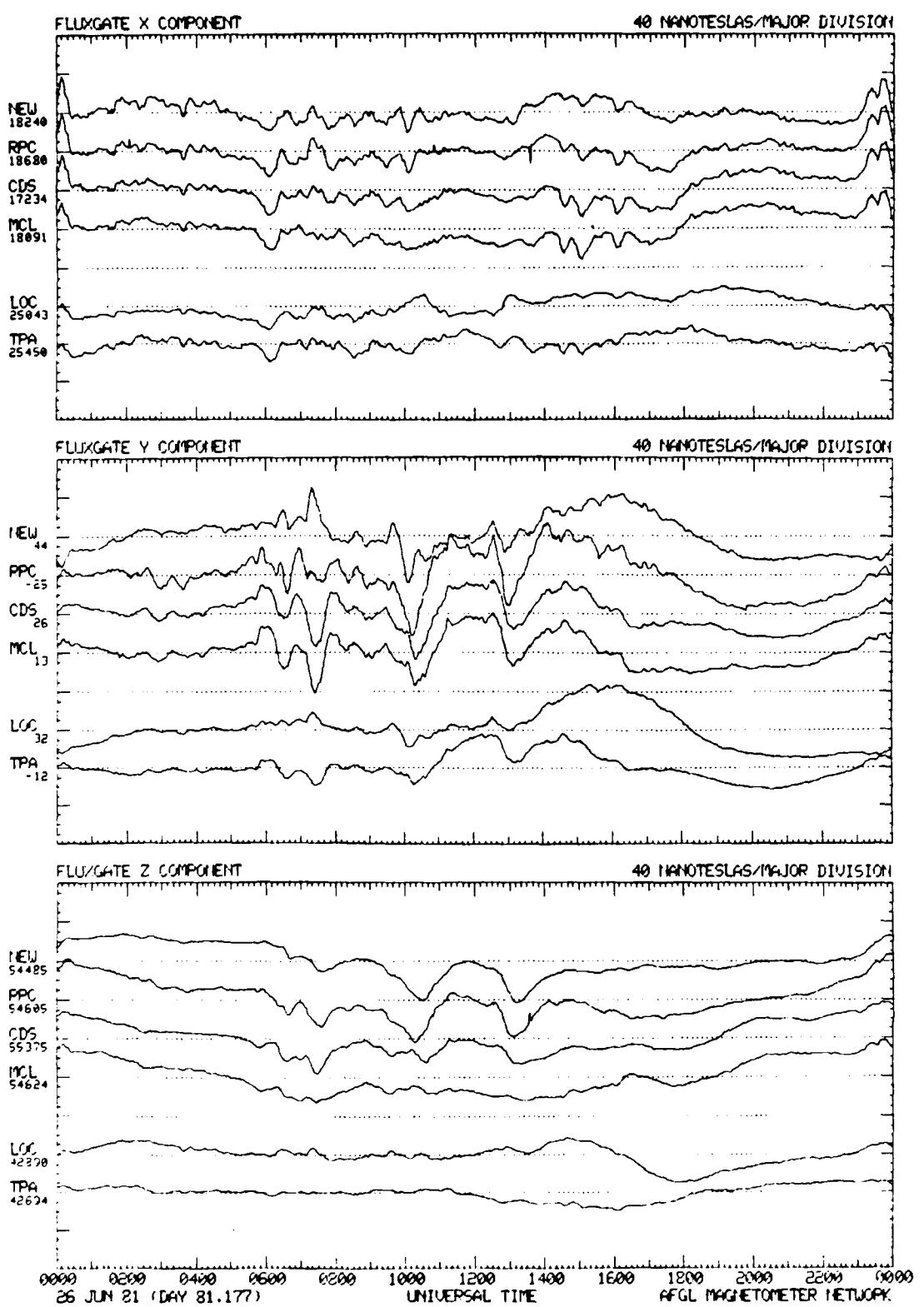
NEW
35PPC
-21CDS
26MCL
16LOC
34TPA
-3

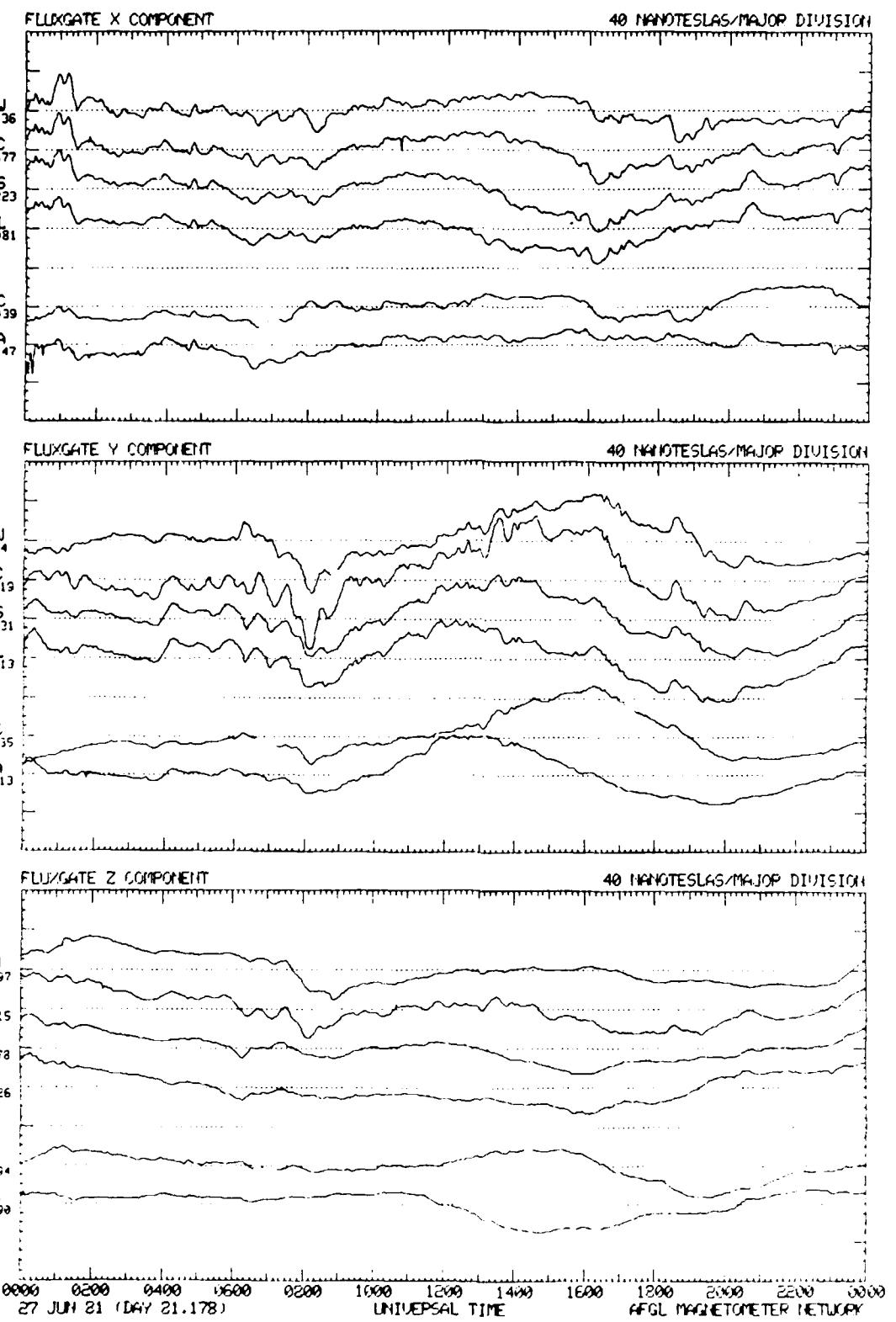
FLUXGATE Z COMPONENT

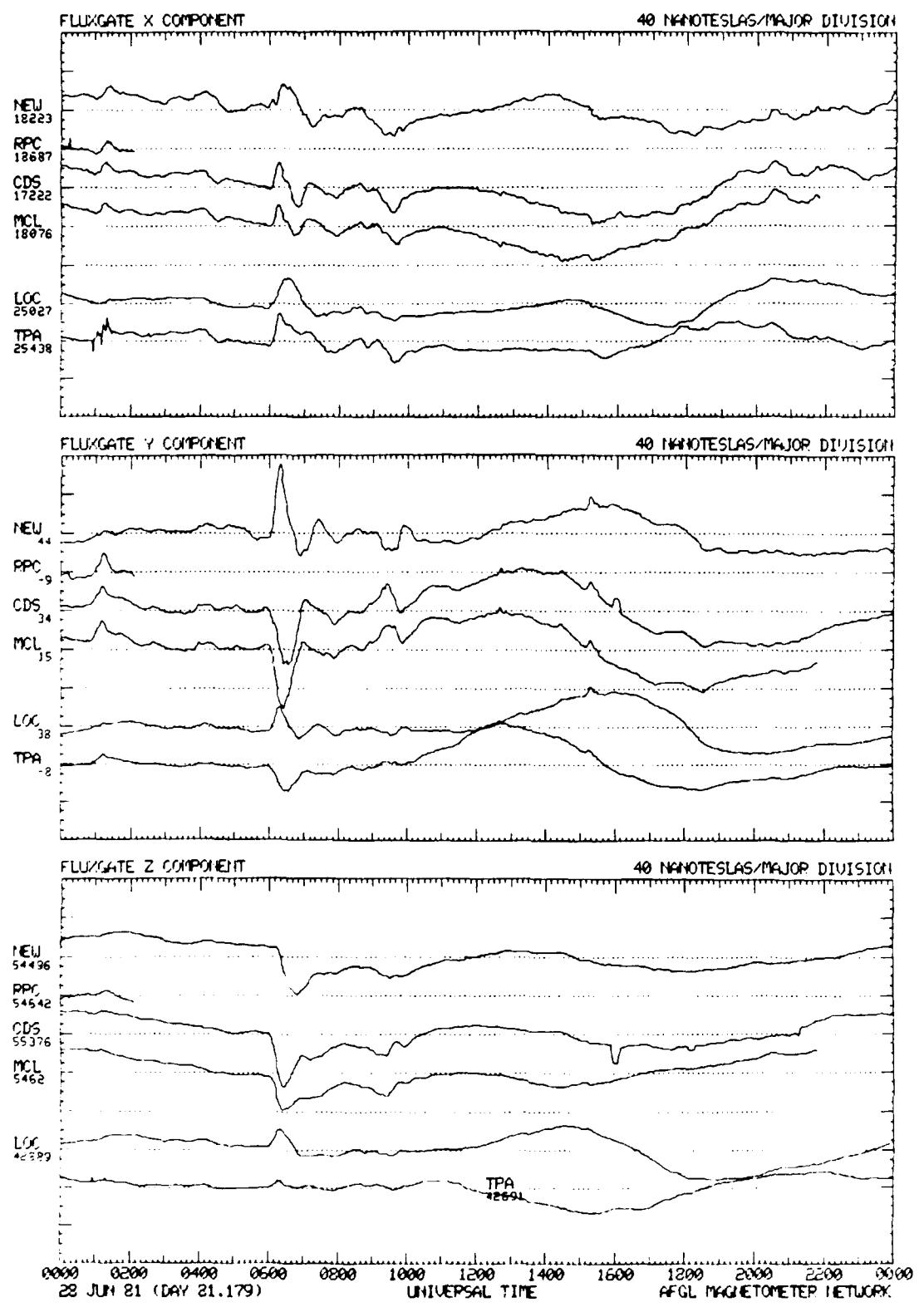
40 NANOTESLAS/MAJOR DIVISION

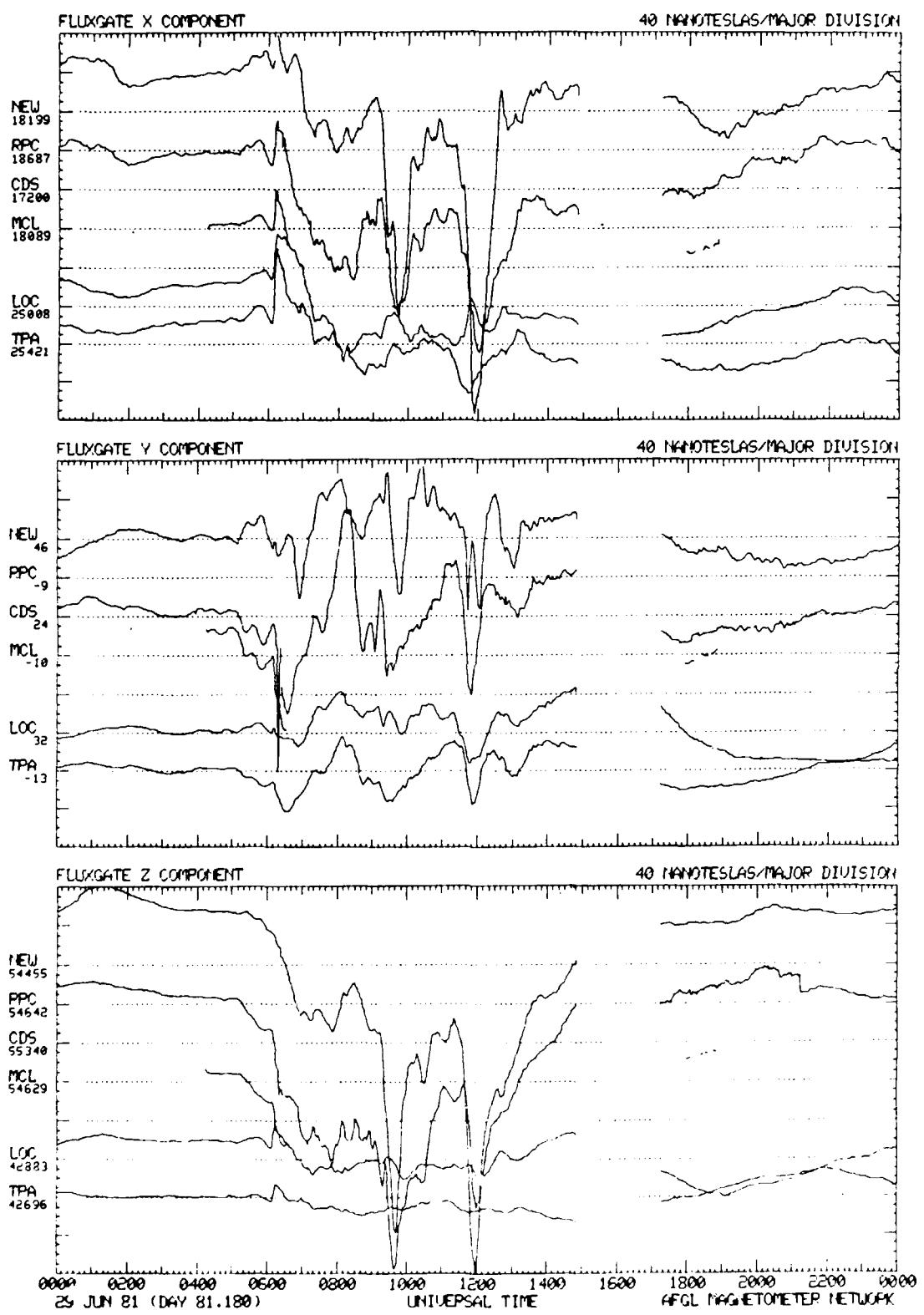
NEW
54485PPC
54610CDS
55375MCL
54626LOC
45568TPA
4266600000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
24 JUN 81 (DAY 81.175)00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
UNIVERSAL TIME AFGL MAGNETOMETER NETWORK











AD-A173 958

DAILY MAGNETOGRAMS FOR 1981 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK (U) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 28 FEB 85

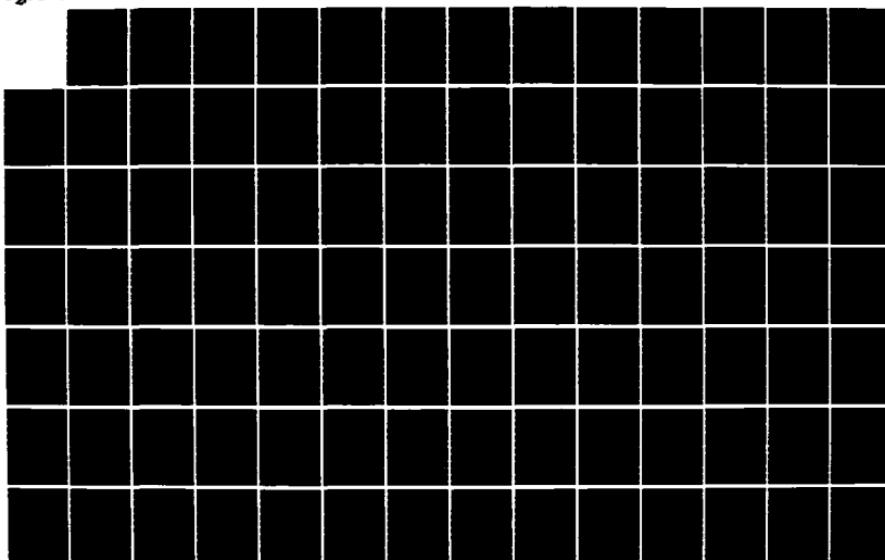
3/5

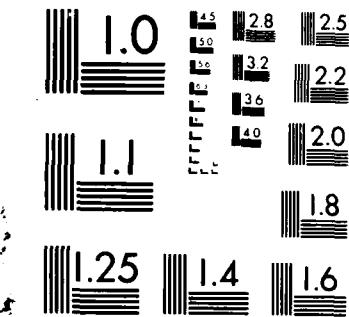
UNCLASSIFIED

AFGL-TR-85-0030

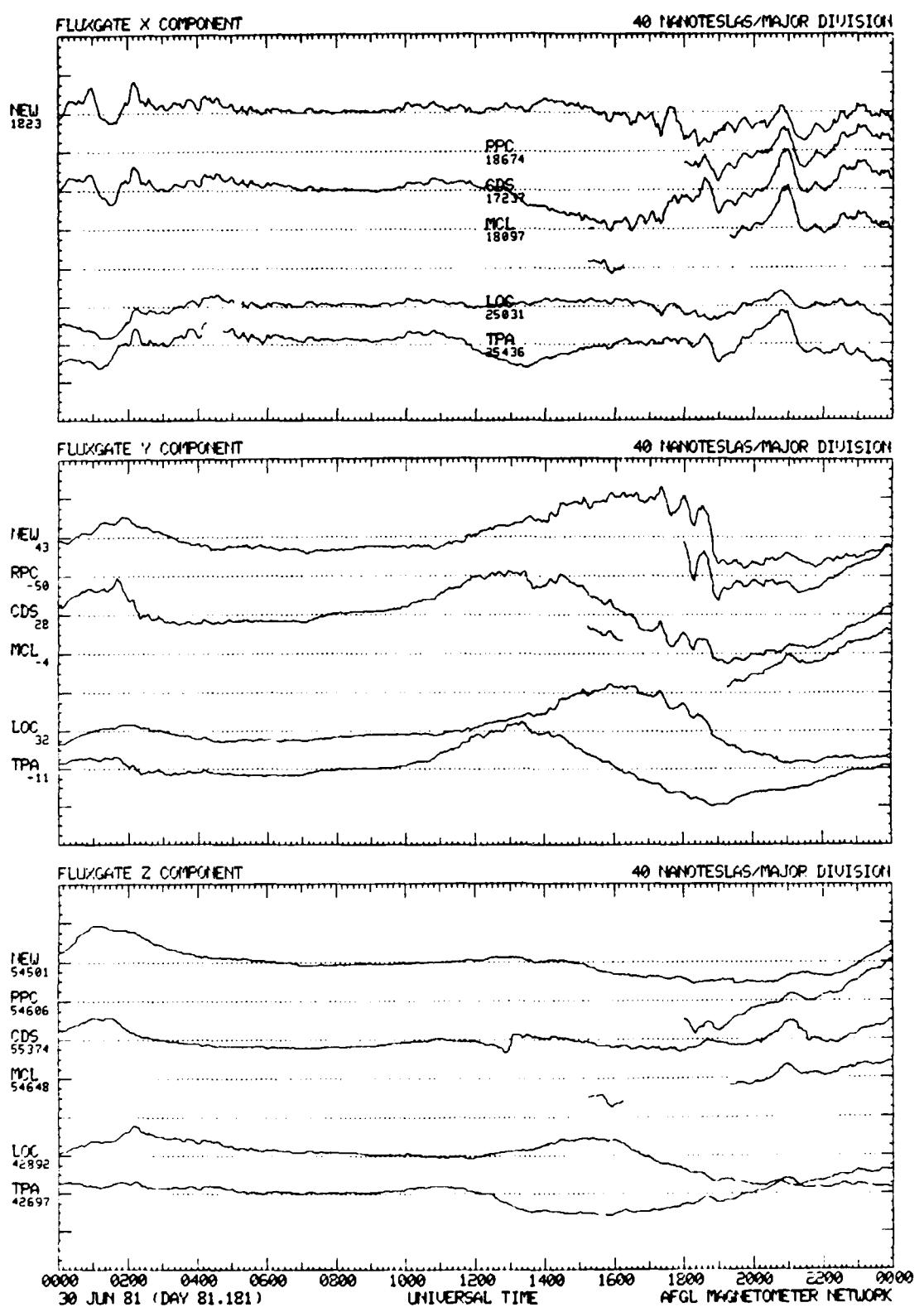
F/G 4/1

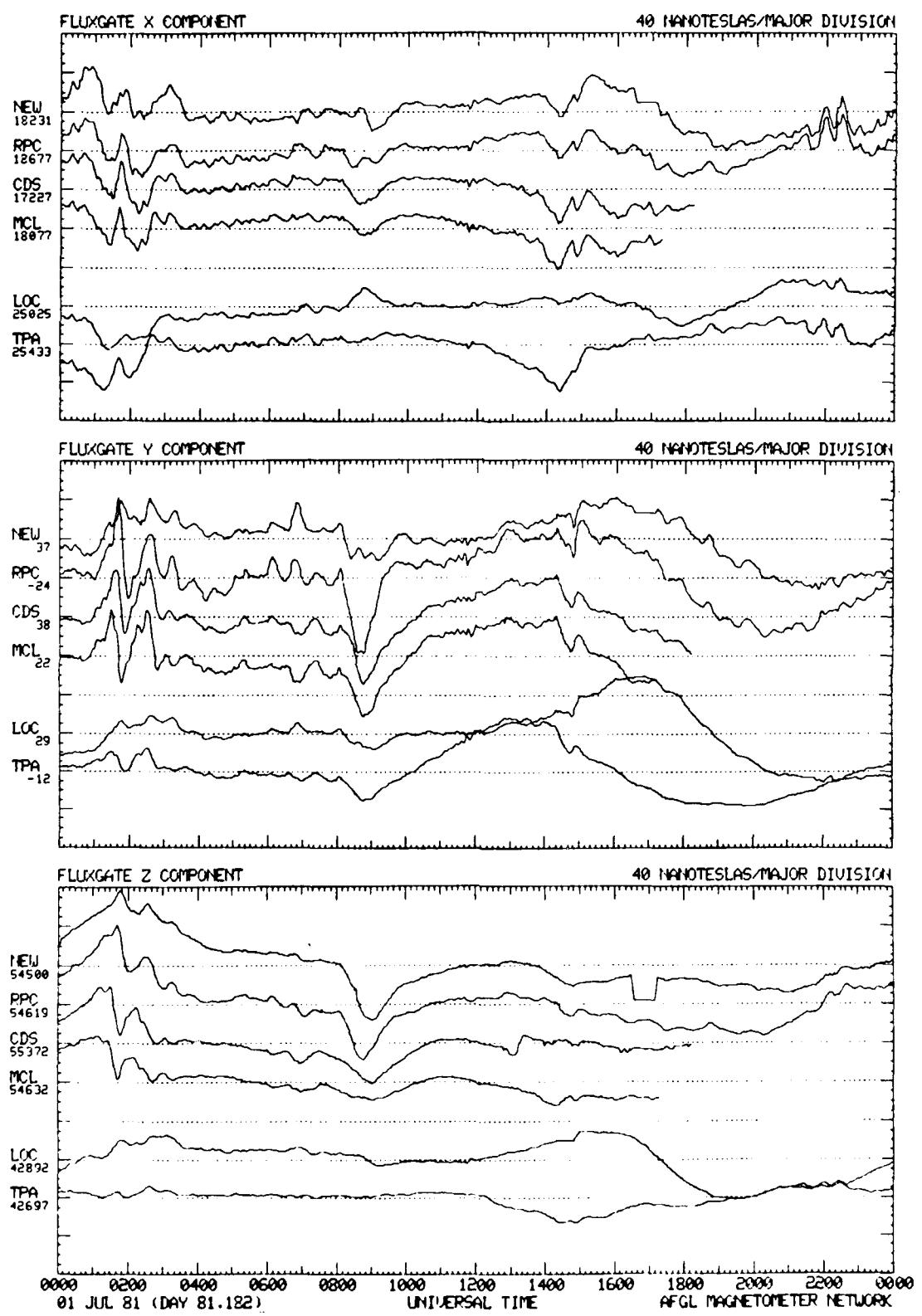
NL

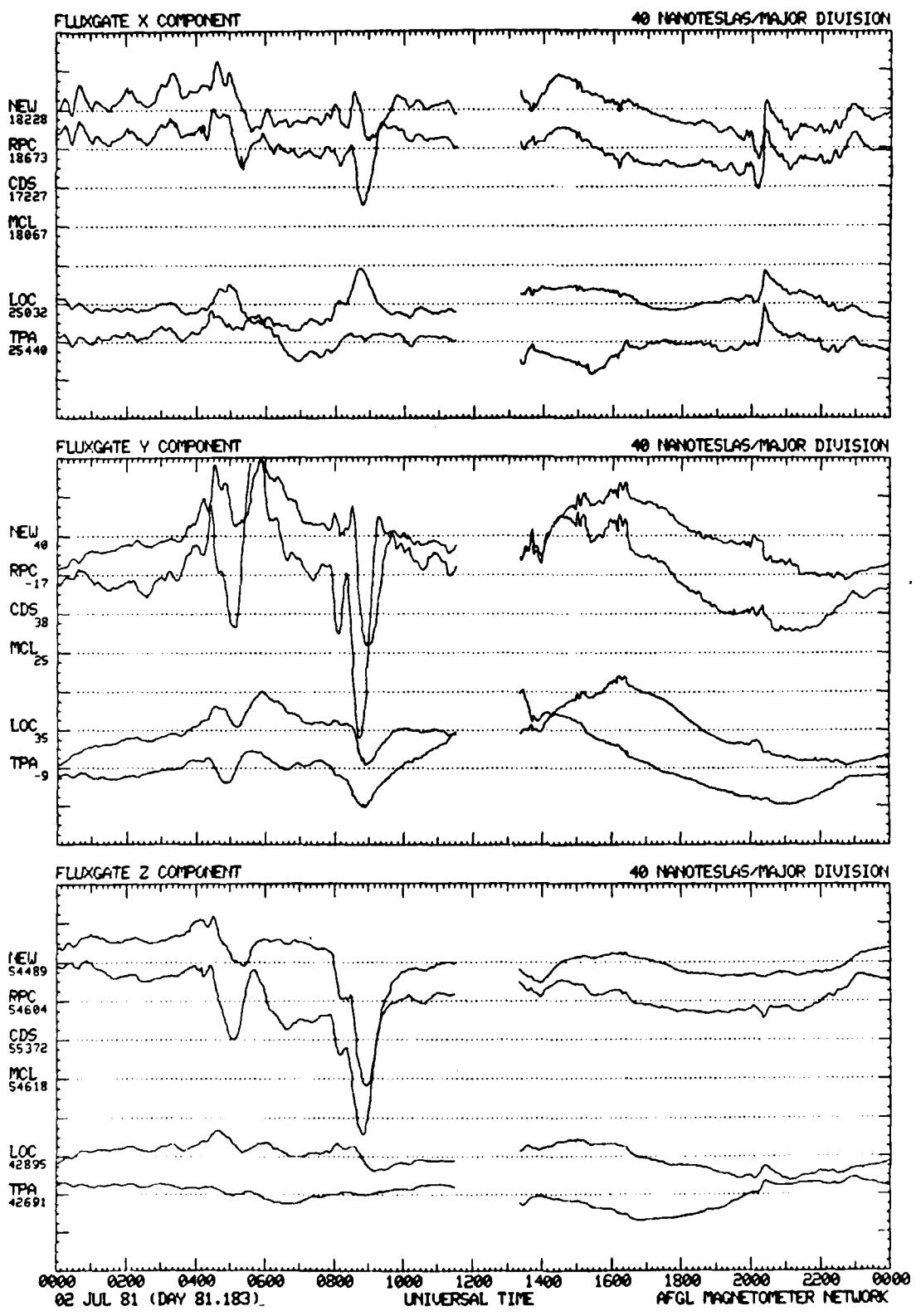


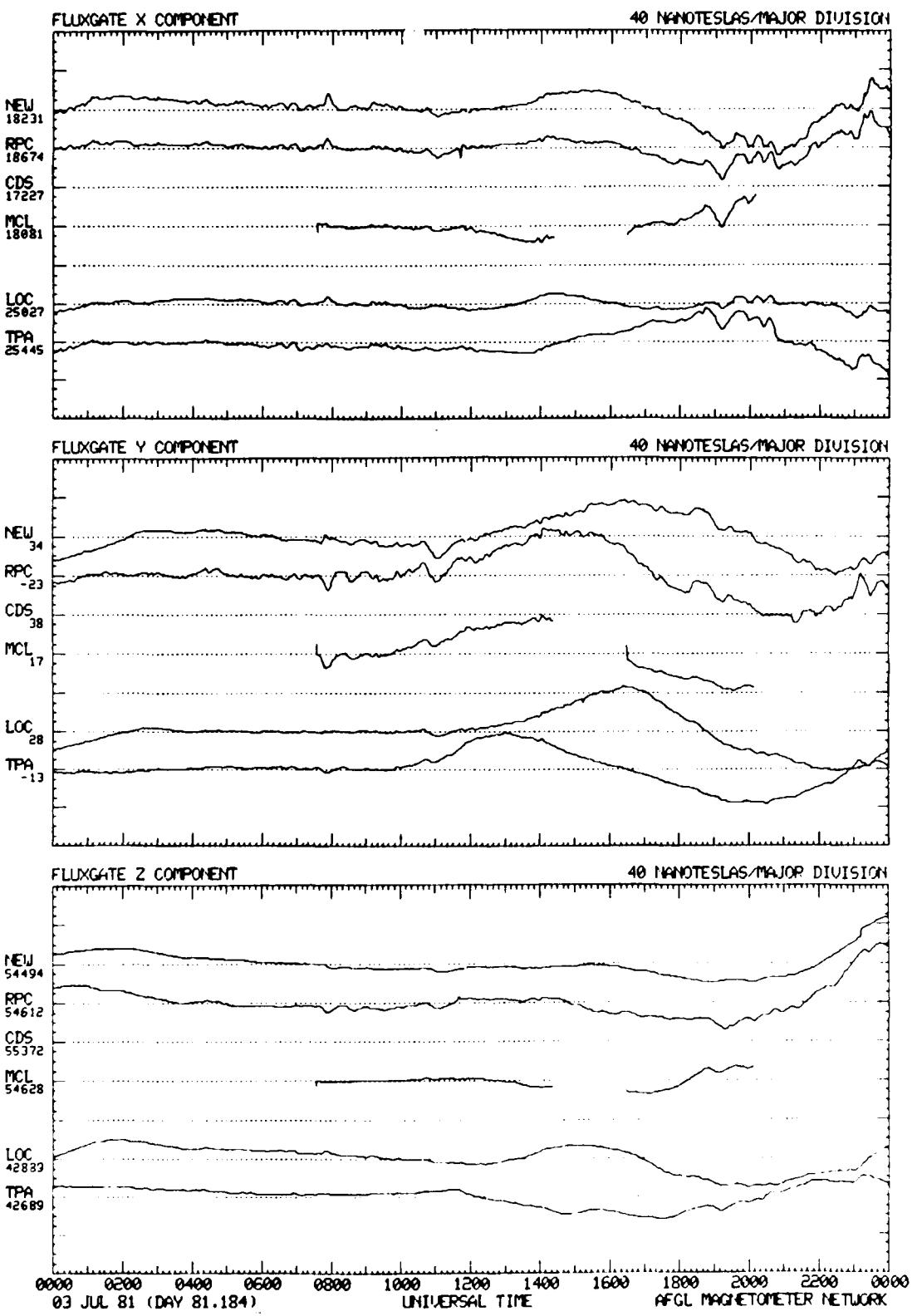


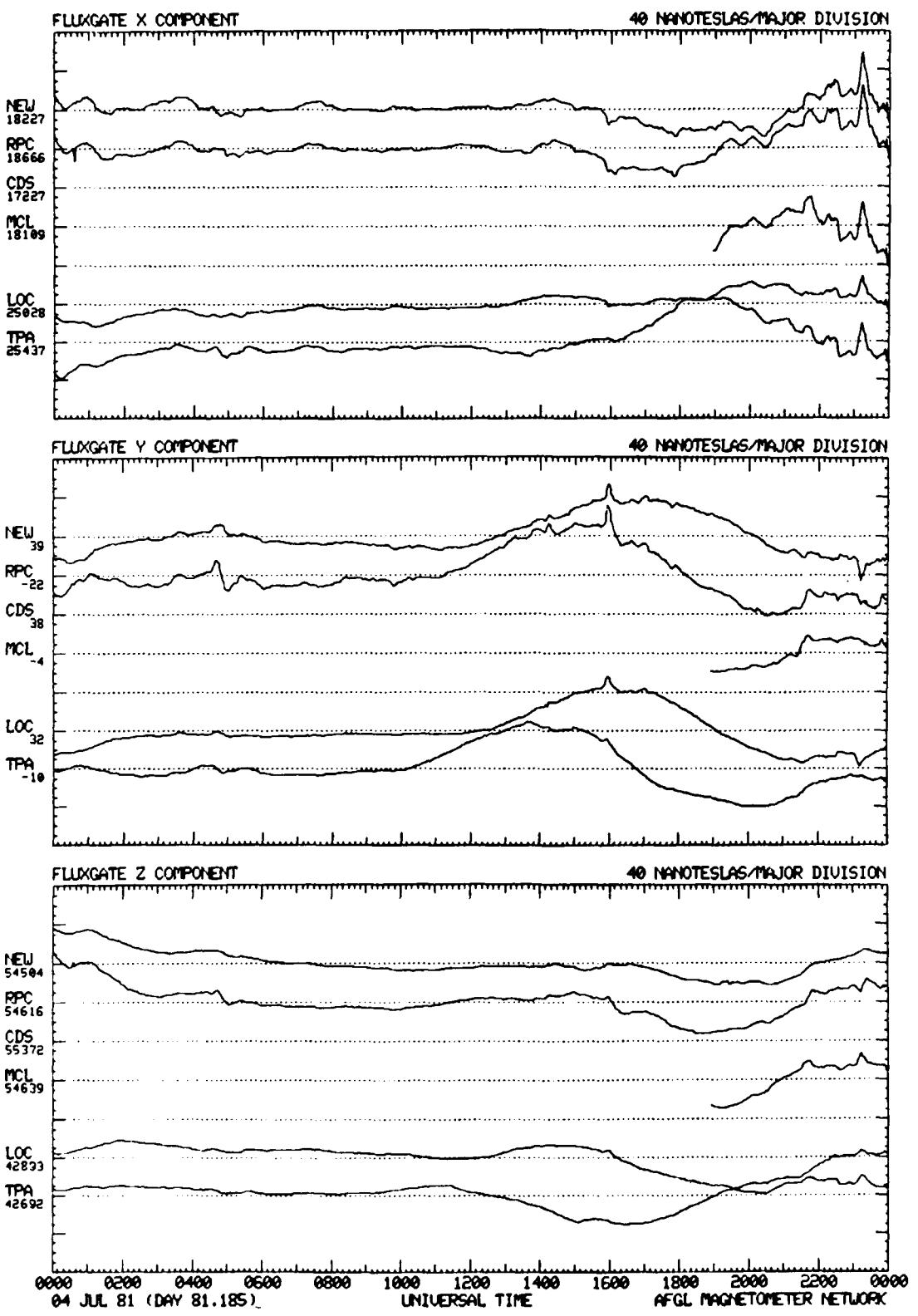
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

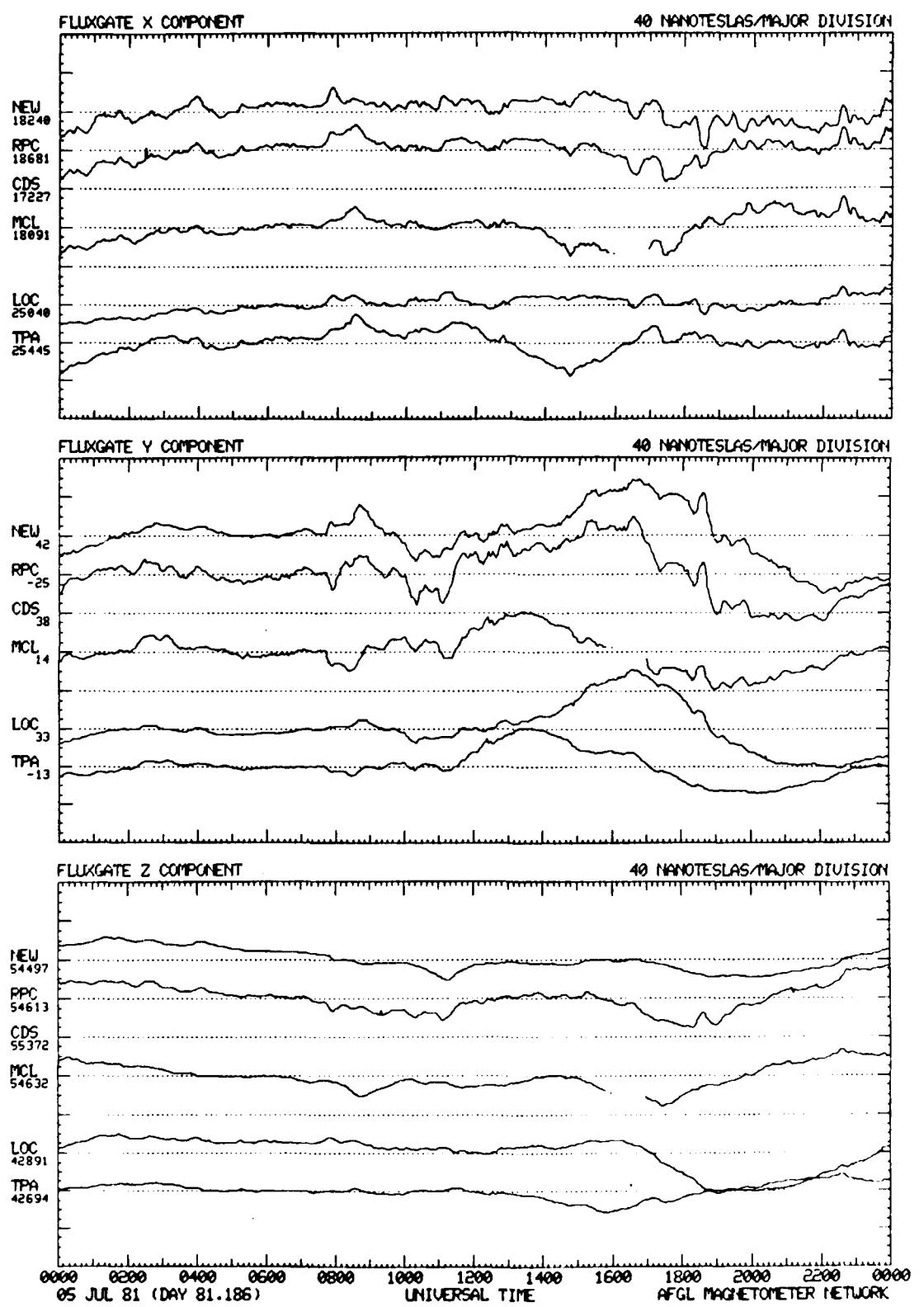


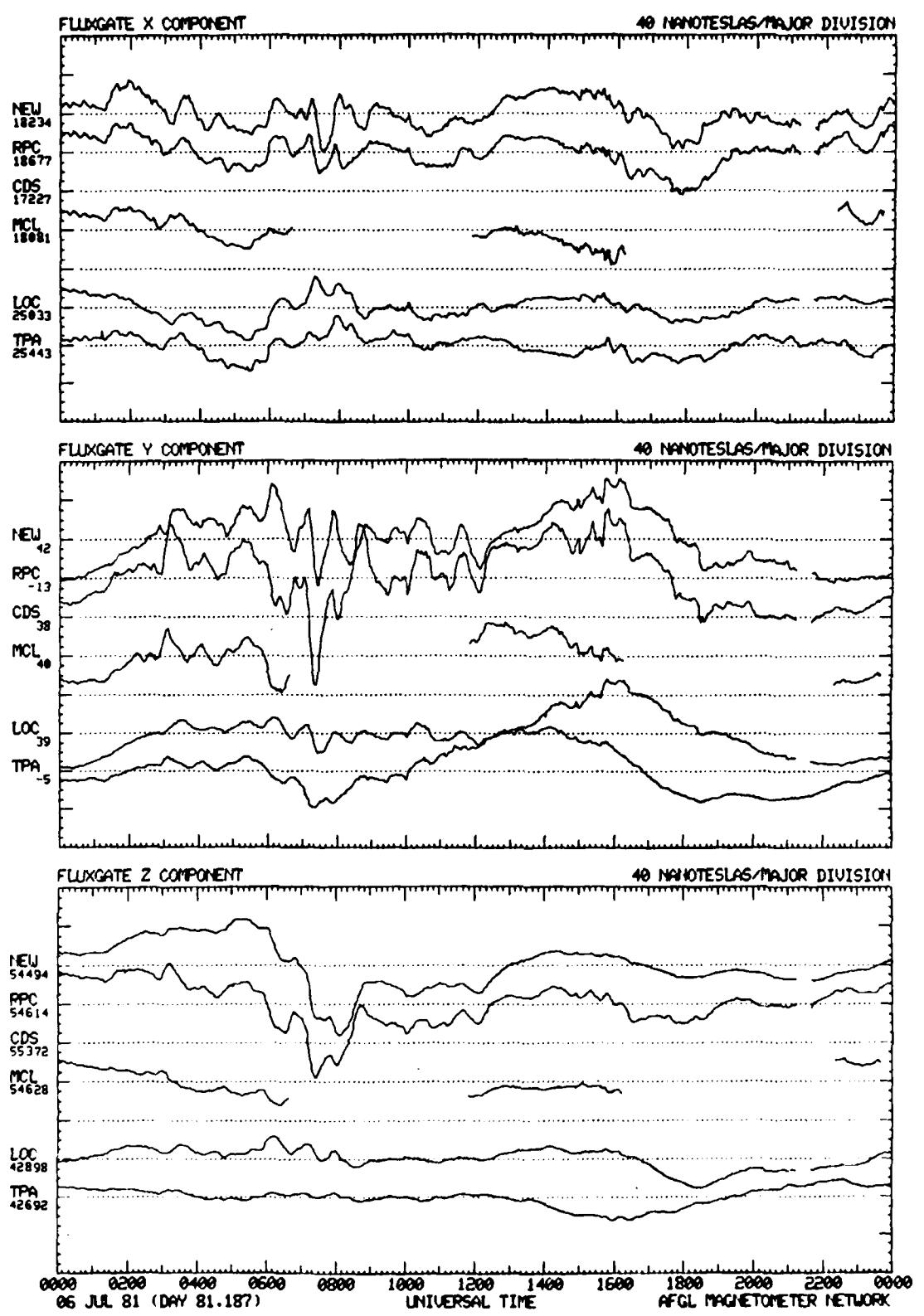


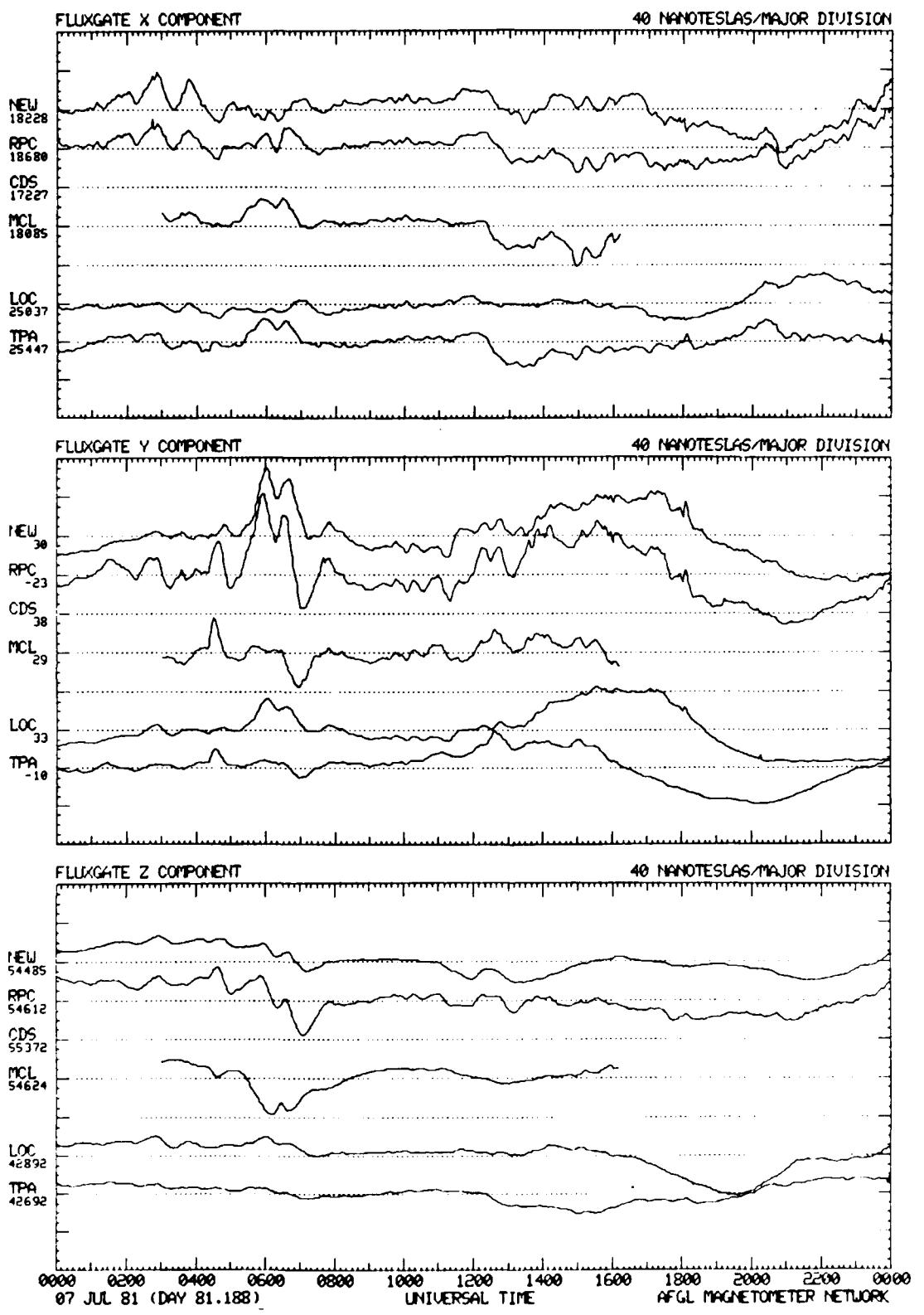


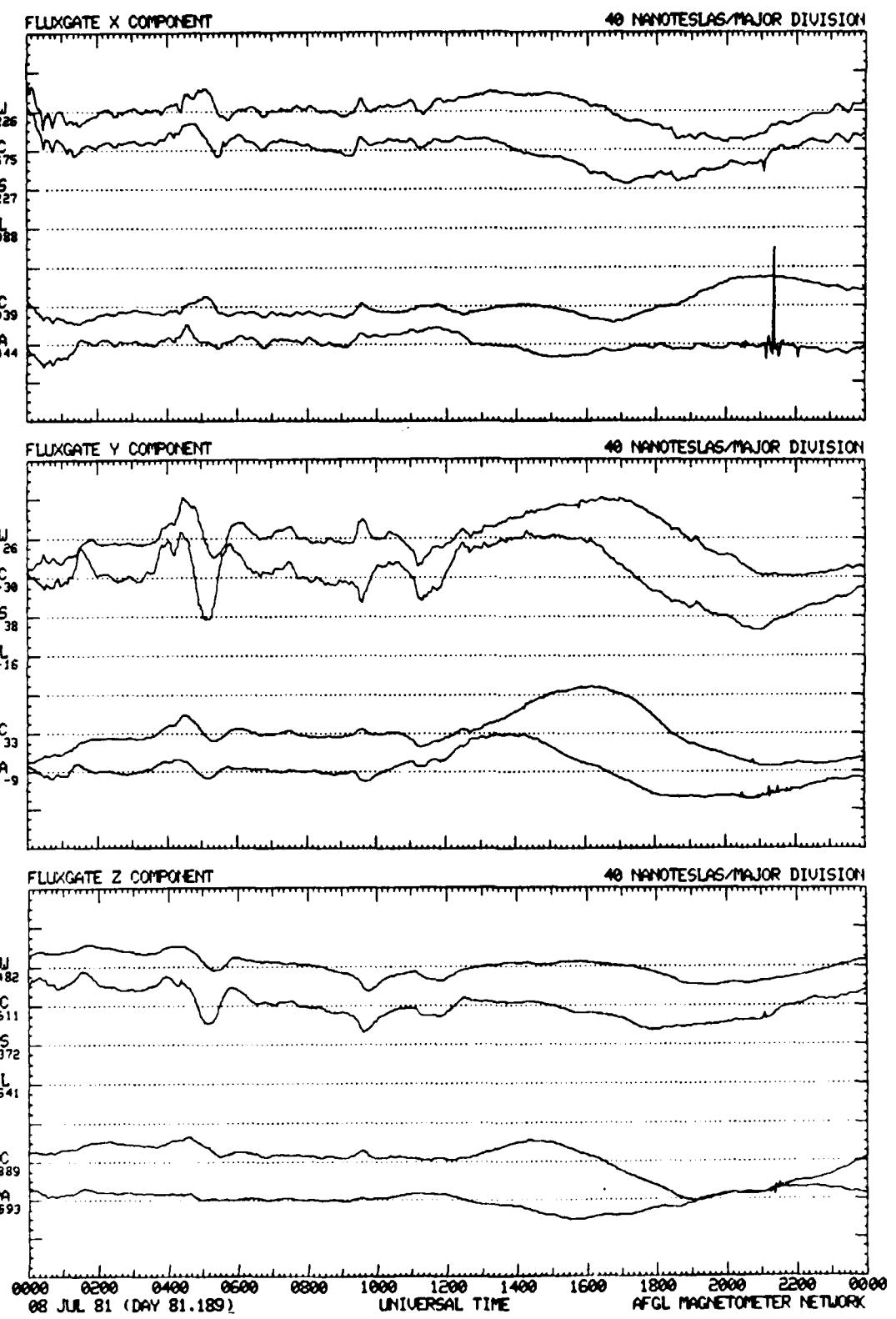


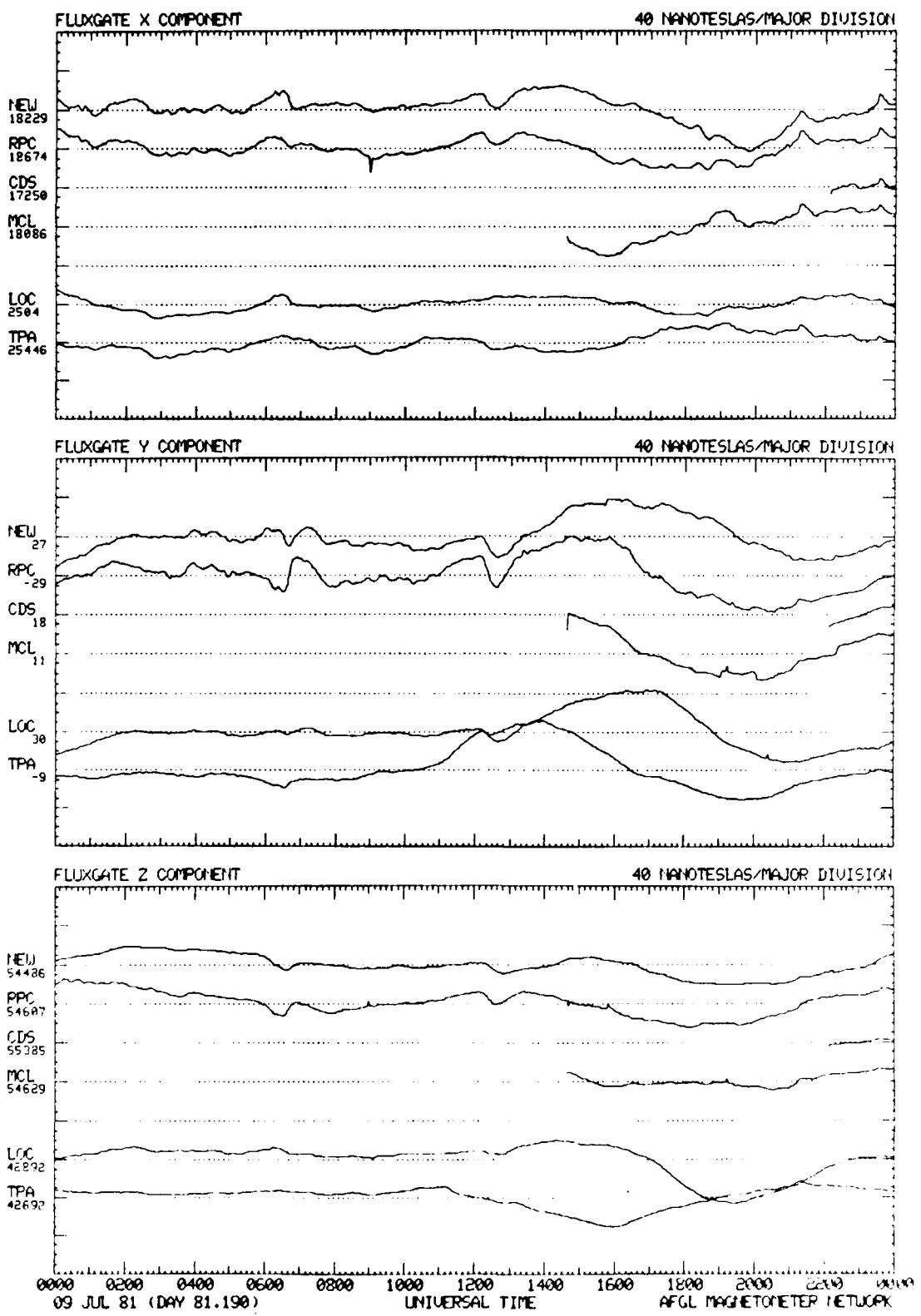


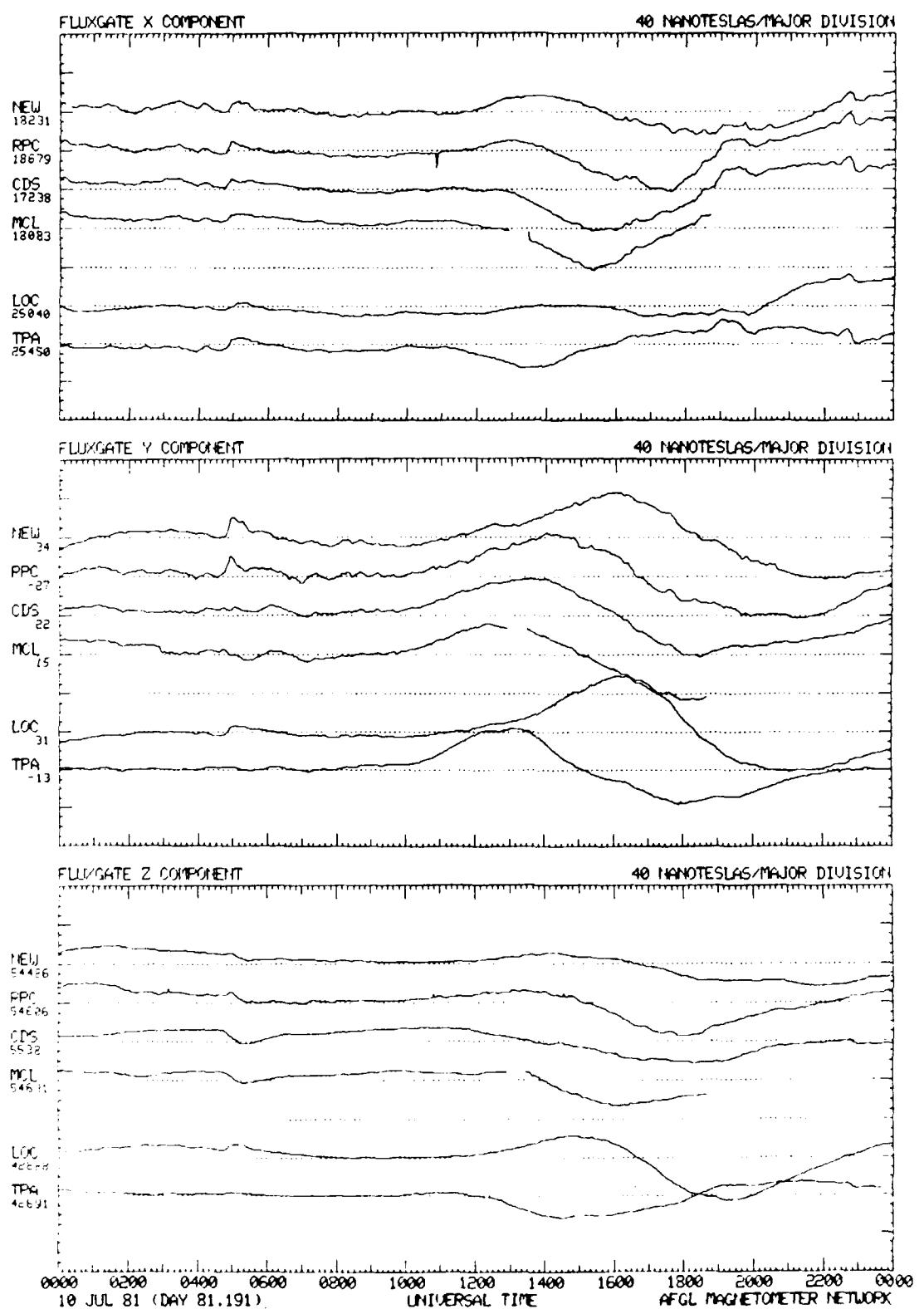


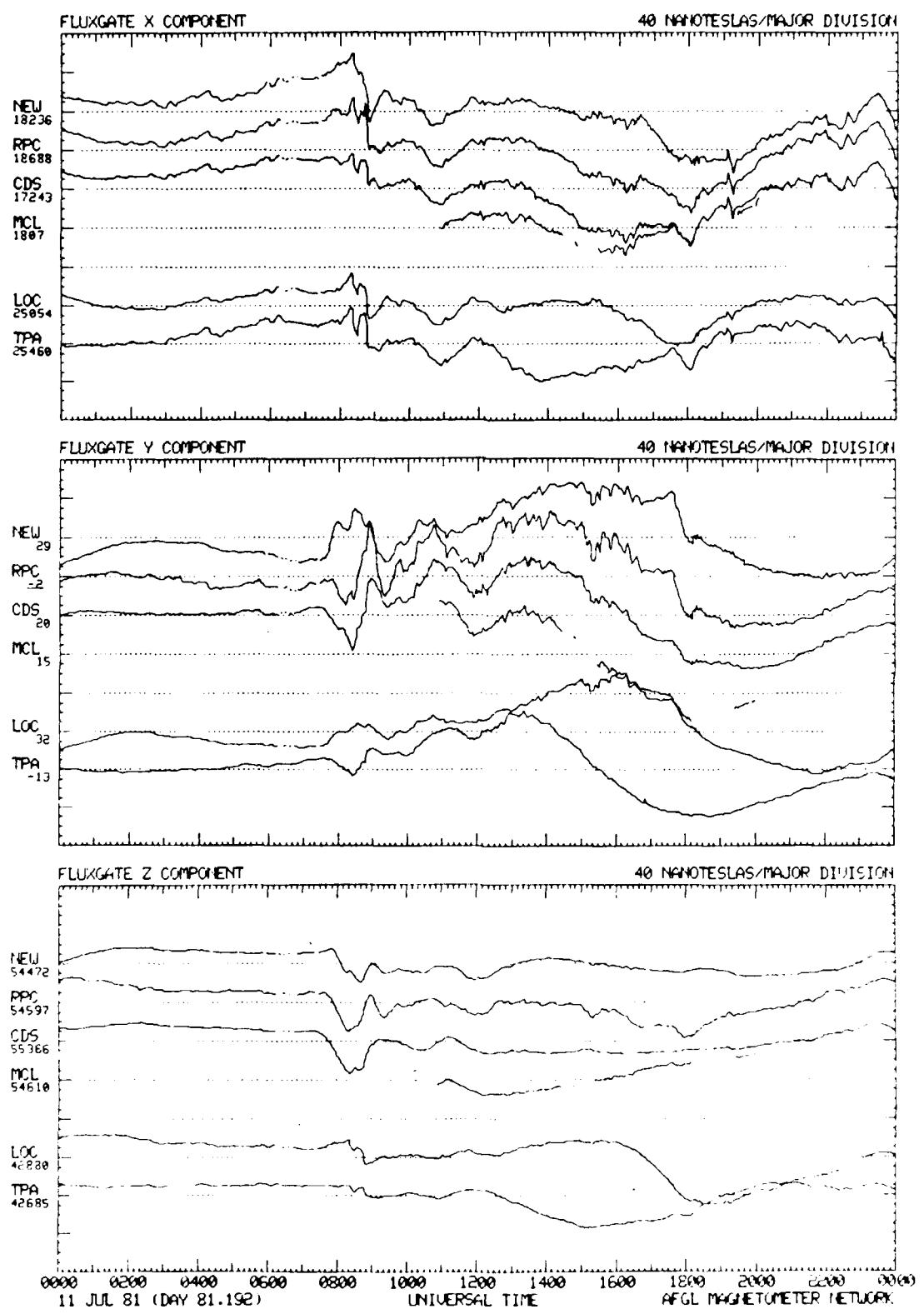


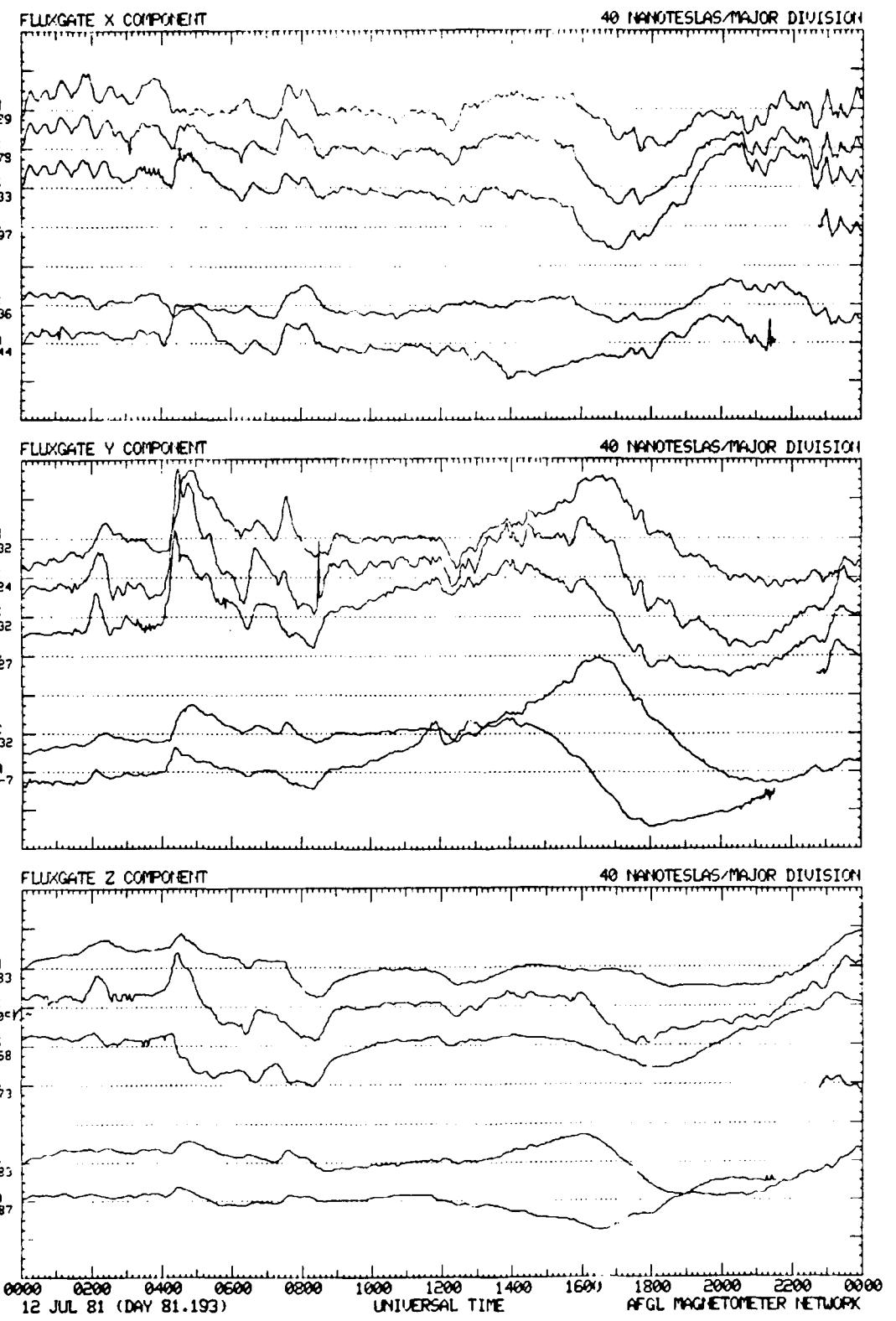


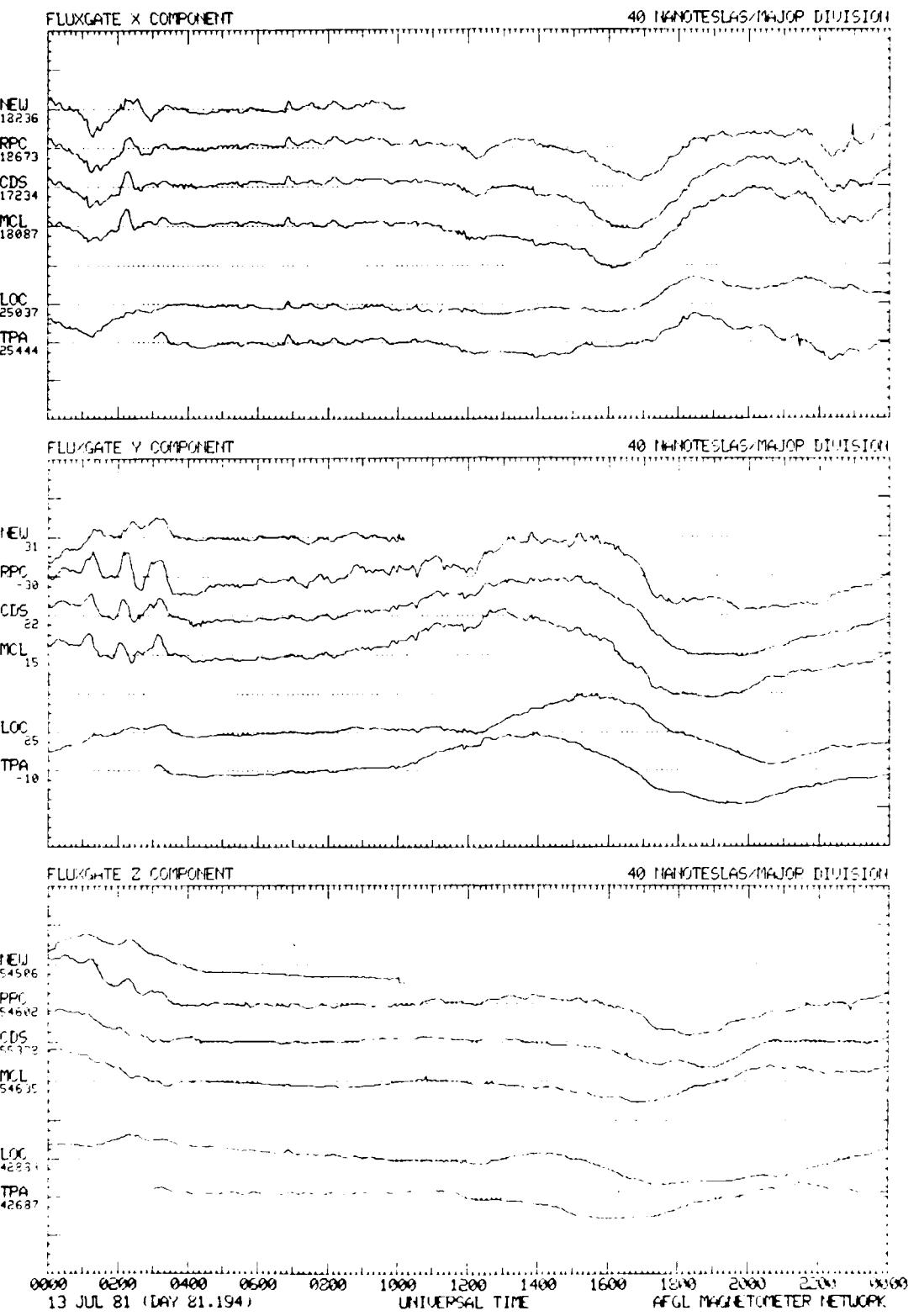


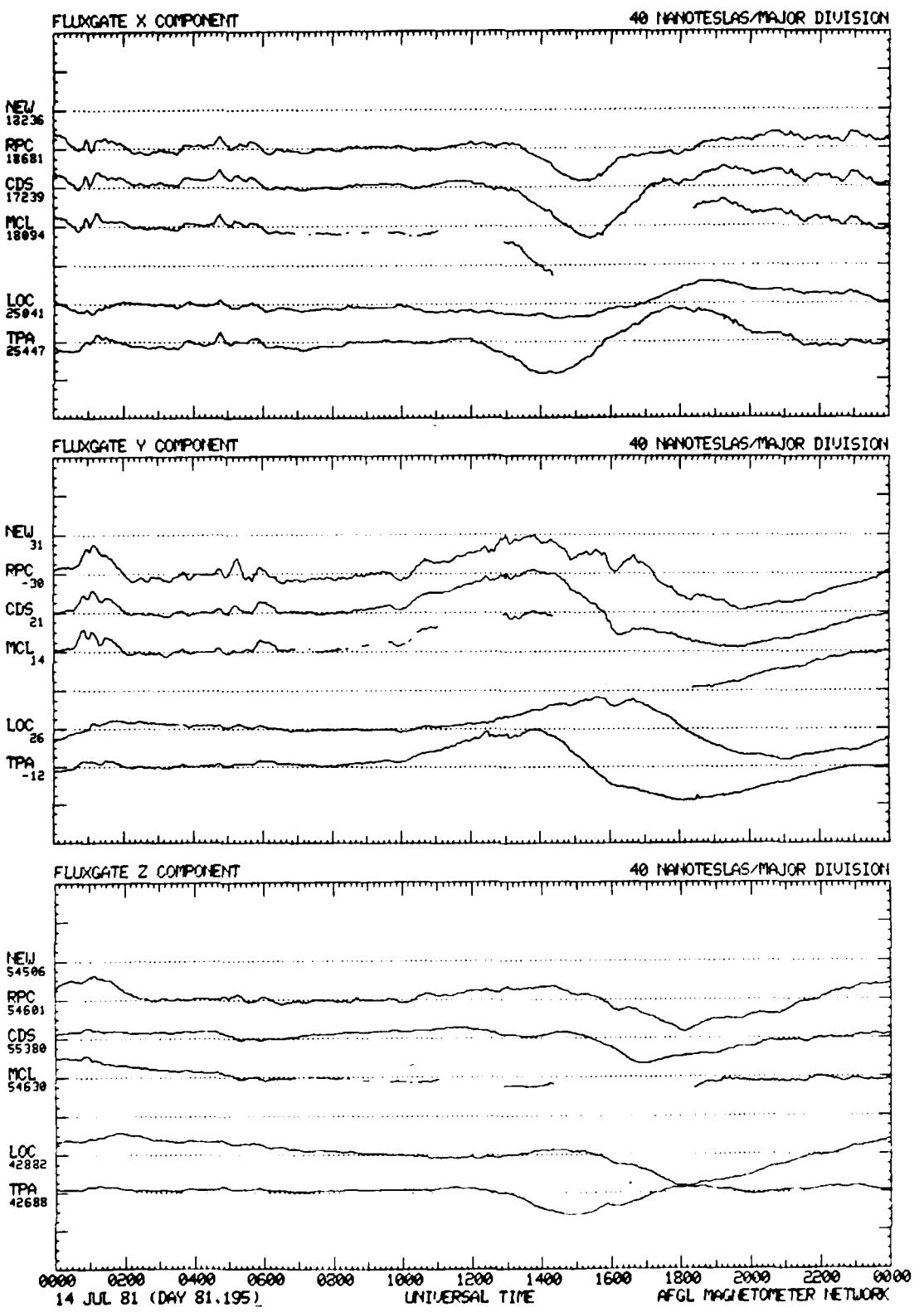


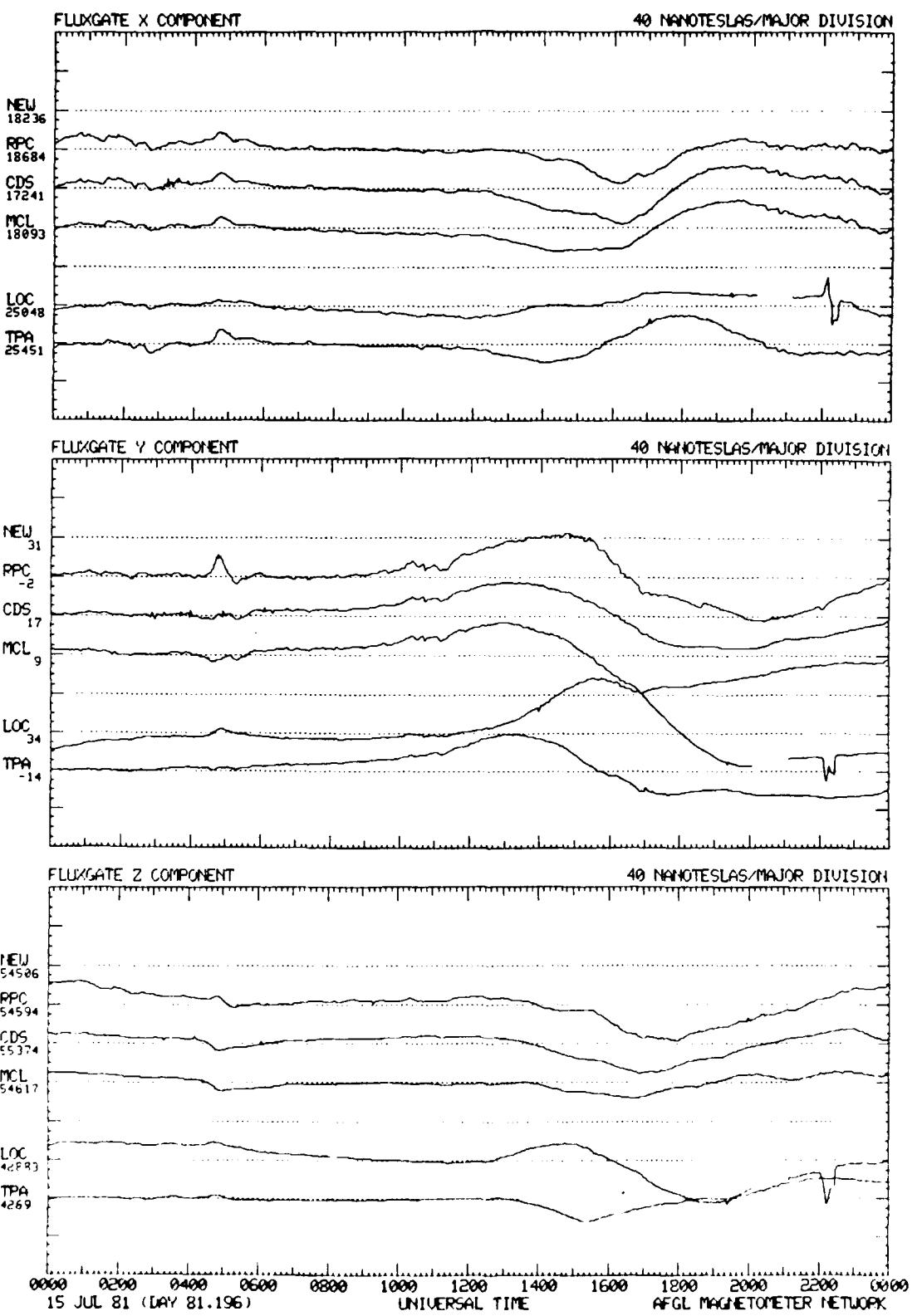


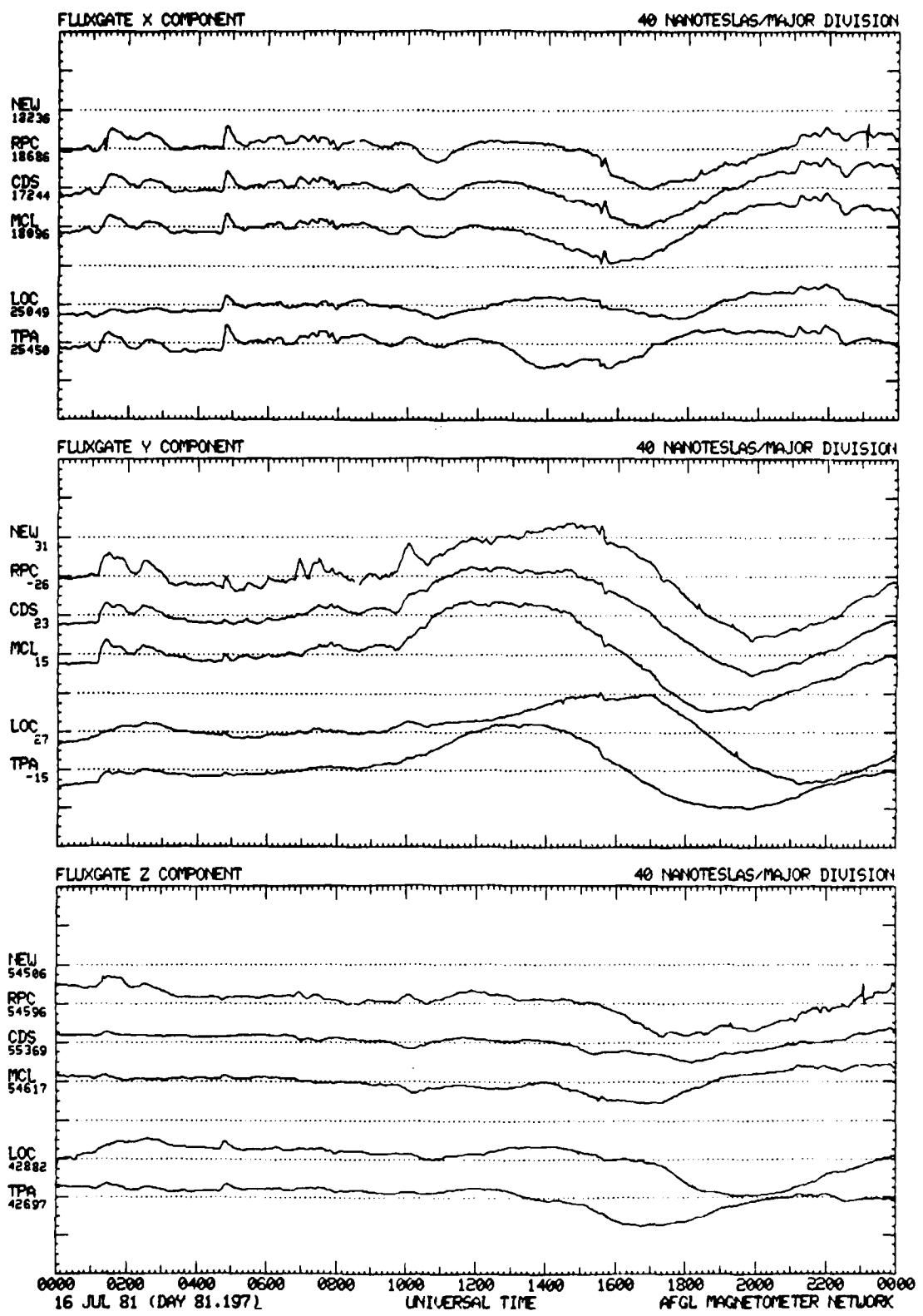


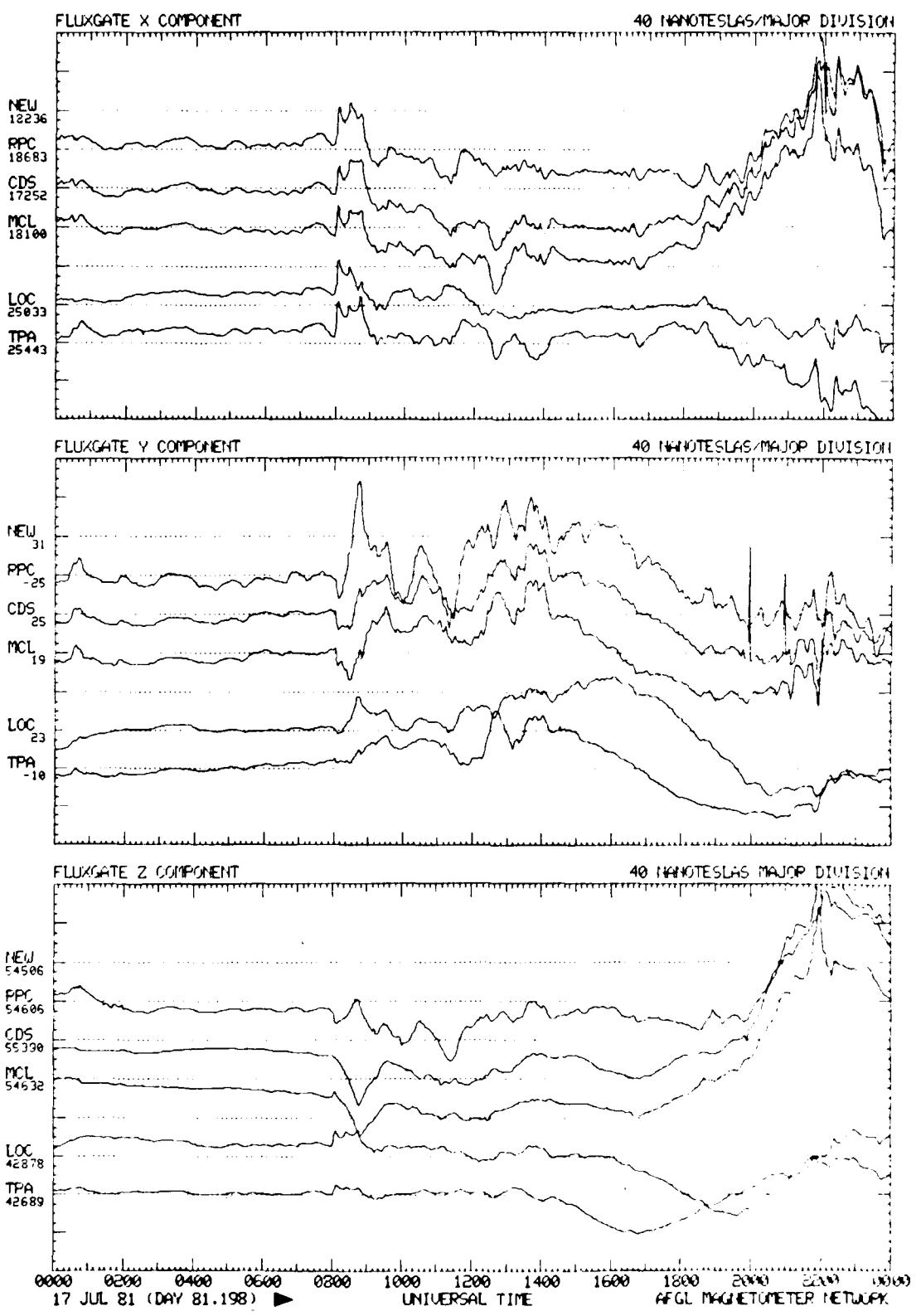












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18236
RPC
18661
CDS
17222
MCL
18073
LOC
25915
TPA
25420

FLUXGATE Y COMPONENT

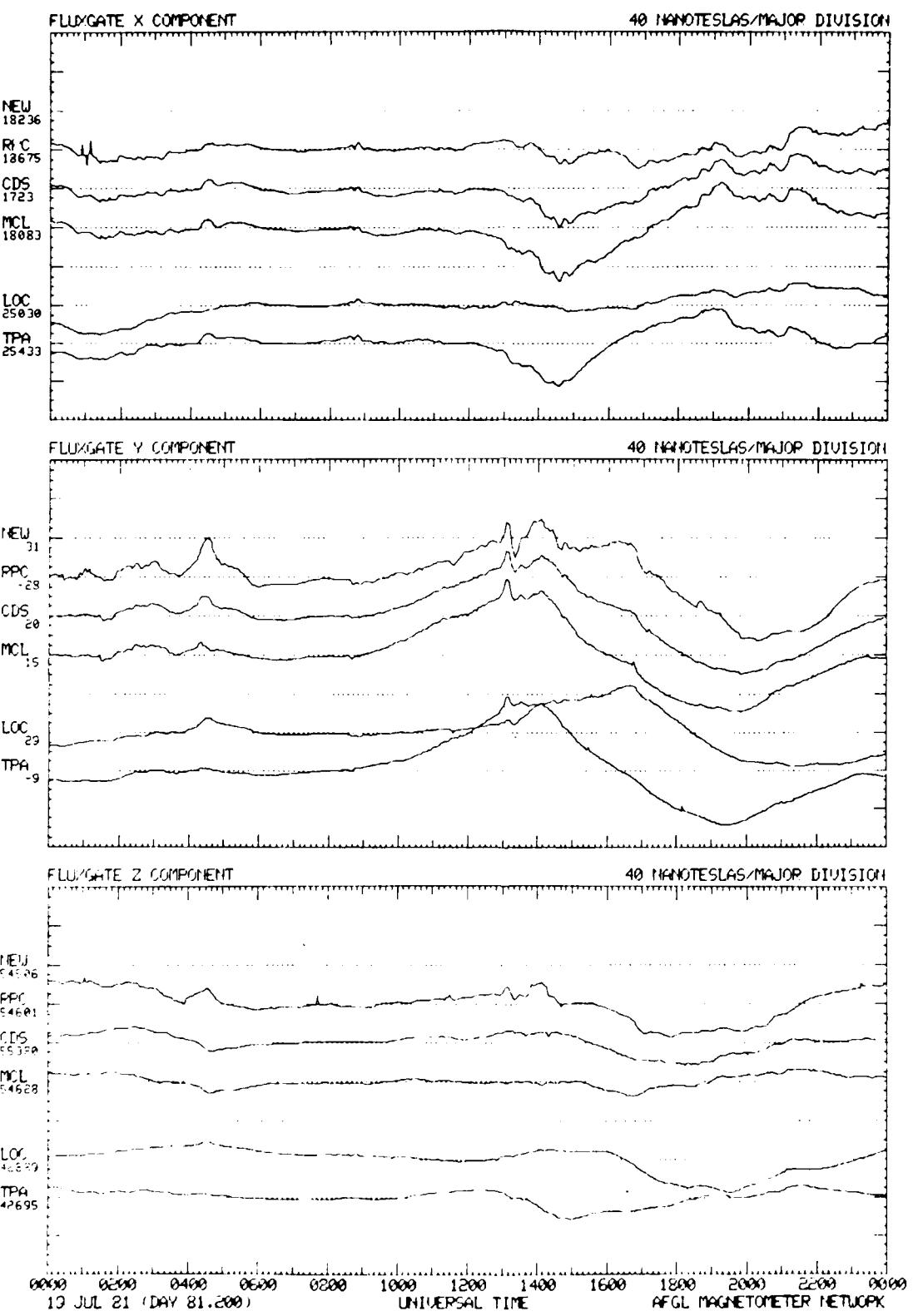
40 NANOTESLAS/MAJOR DIVISION

NEW
31
RPC
-35
CDS
14
MCL
9
LOC
22
TPA
-11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54506
RPC
54616
CDS
55391
MCL
54639
LOC
42888
TPA
427050000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
18 JUL 81 (DAY 81.199) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

NEU 18236
PPC 18692
CDS 17248
MCL 18091

LOC 25945
TPA 25444

40 NANOTESLAS/MAJOR DIVISION

FLUXGATE Y COMPONENT

NEU 32
PPC 35
CDS 16
MCL 11

LOC 24
TPA 16

40 NANOTESLAS/MAJOR DIVISION

FLUXGATE Z COMPONENT

NEU 54526
PPC 54537
CDS 55328
MCL 54624

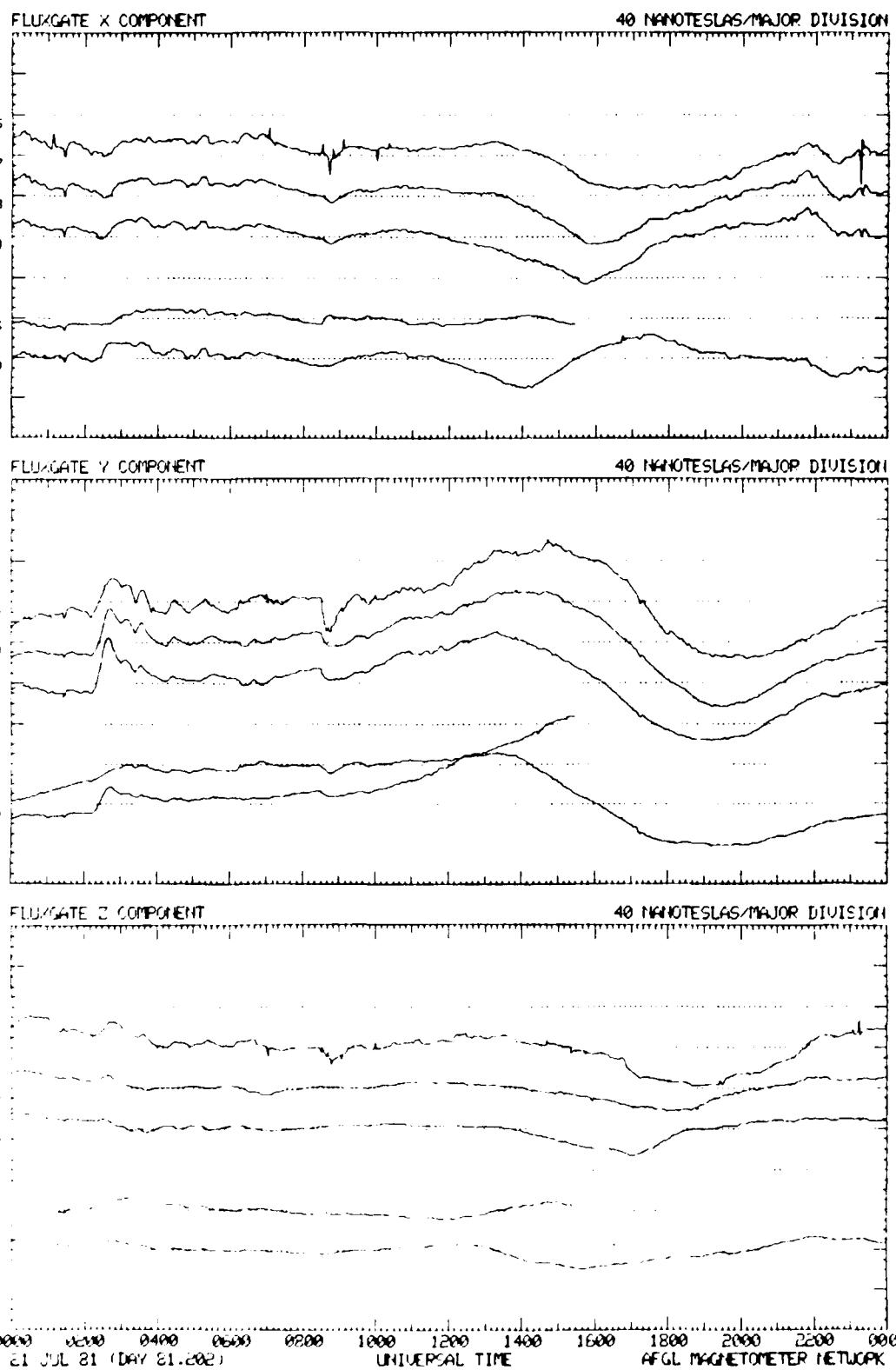
LOC 46528
TPA 46526

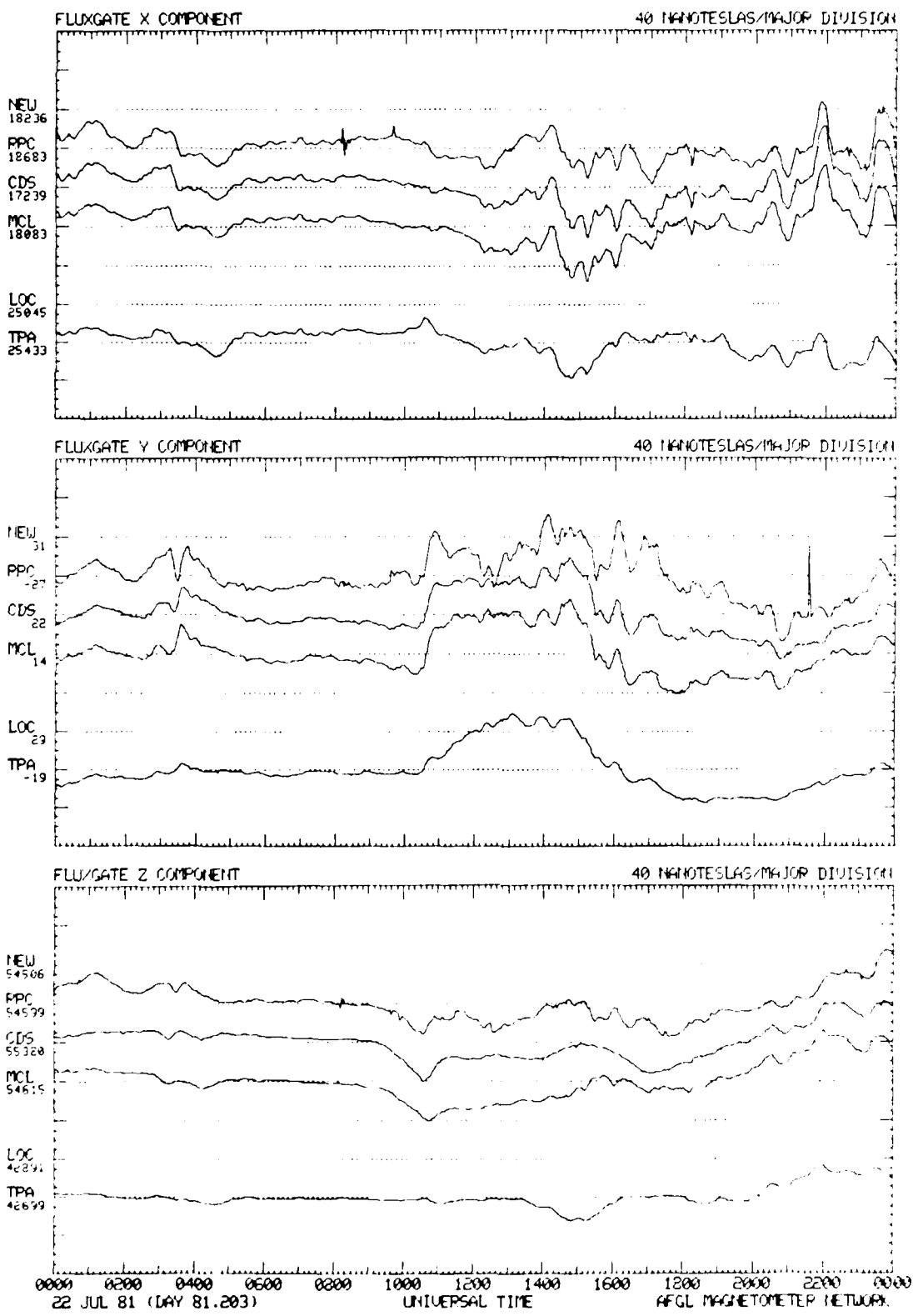
40 NANOTESLAS/MAJOR DIVISION

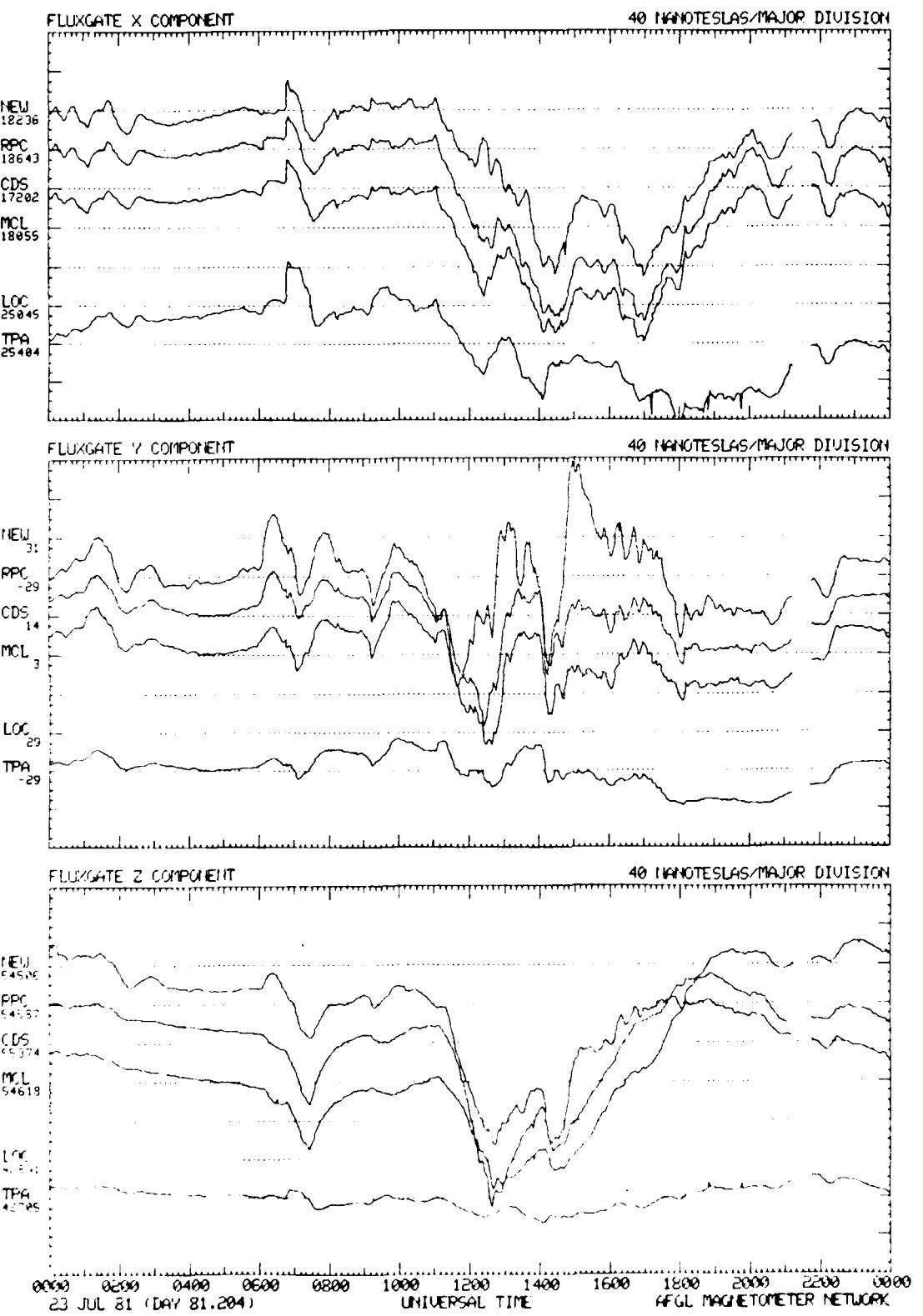
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20 JUL 81 (DAY 81.201)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

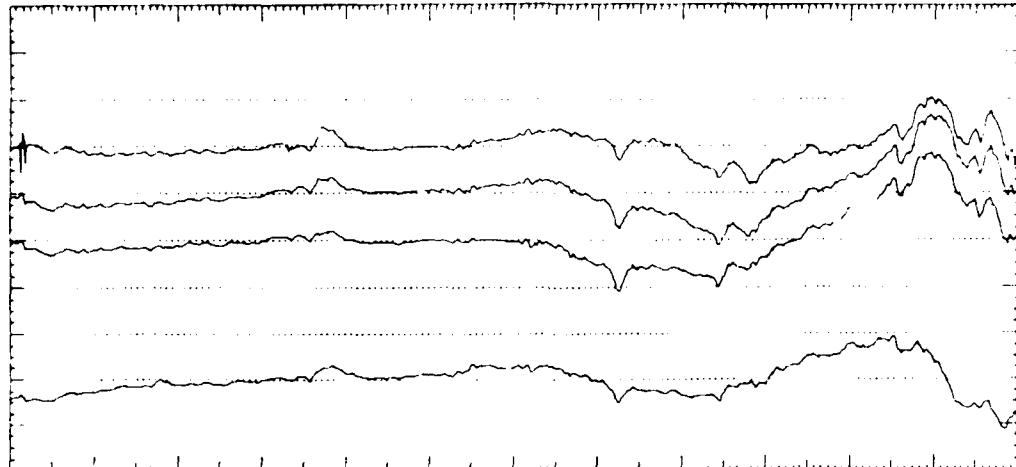






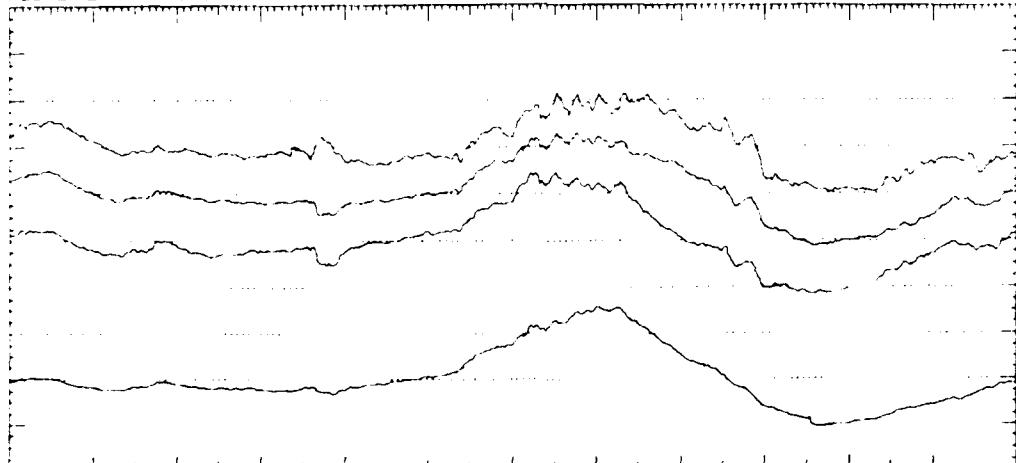
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
132.36
PPR
126.66
CDS
172.20
MCL
188.68LOC
250.45
TPA
254.11

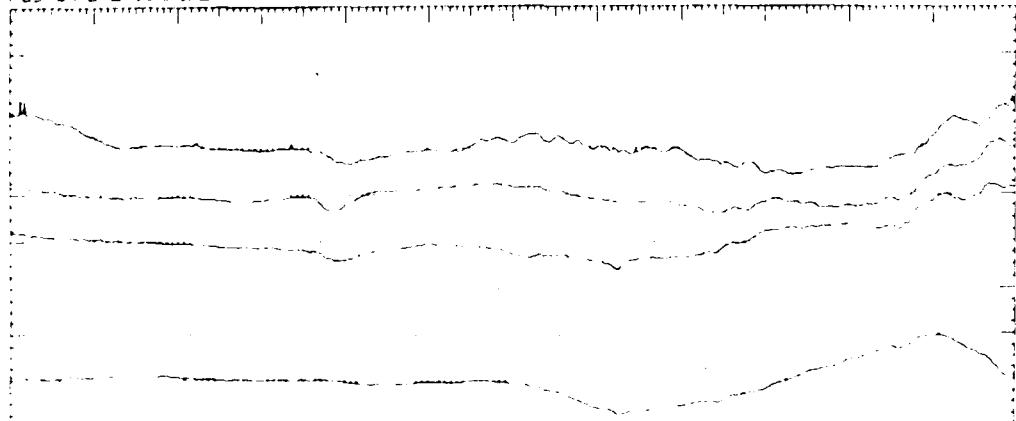
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
23
PPR
24
CDS
21
MCL
16LOC
29
TPA
22

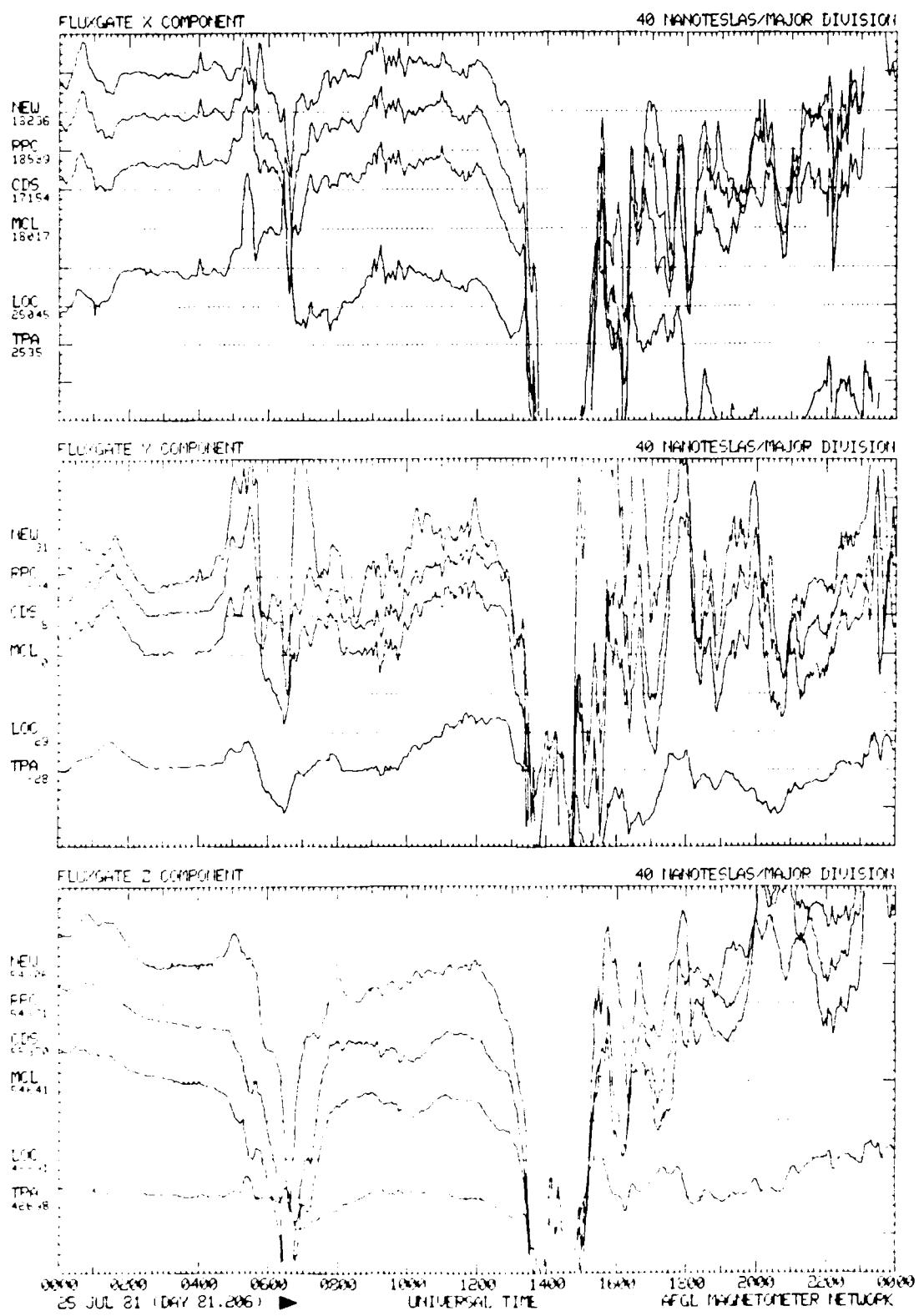
FLUXGATE Z COMPONENT

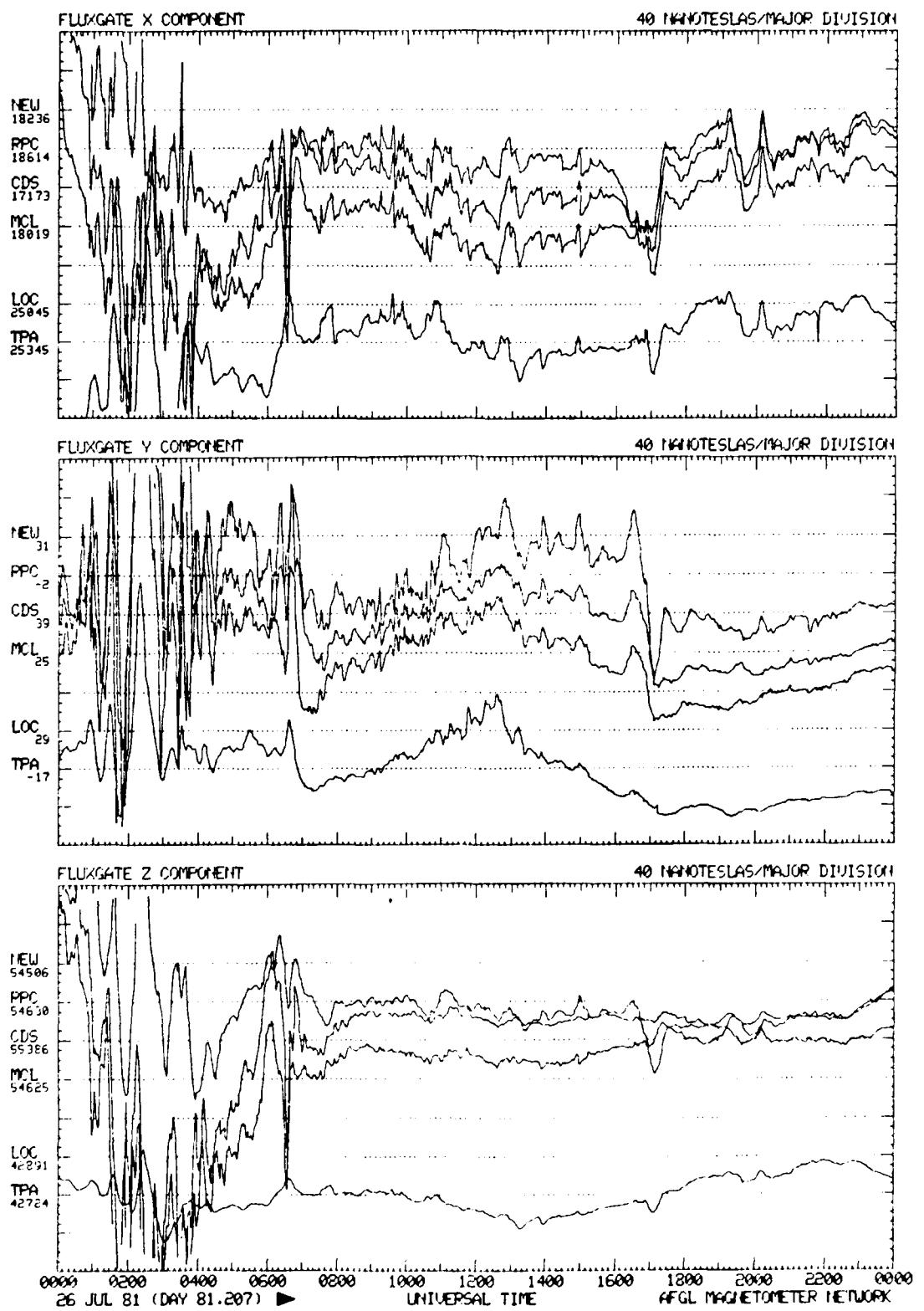
40 NANOTESLAS/MAJOR DIVISION

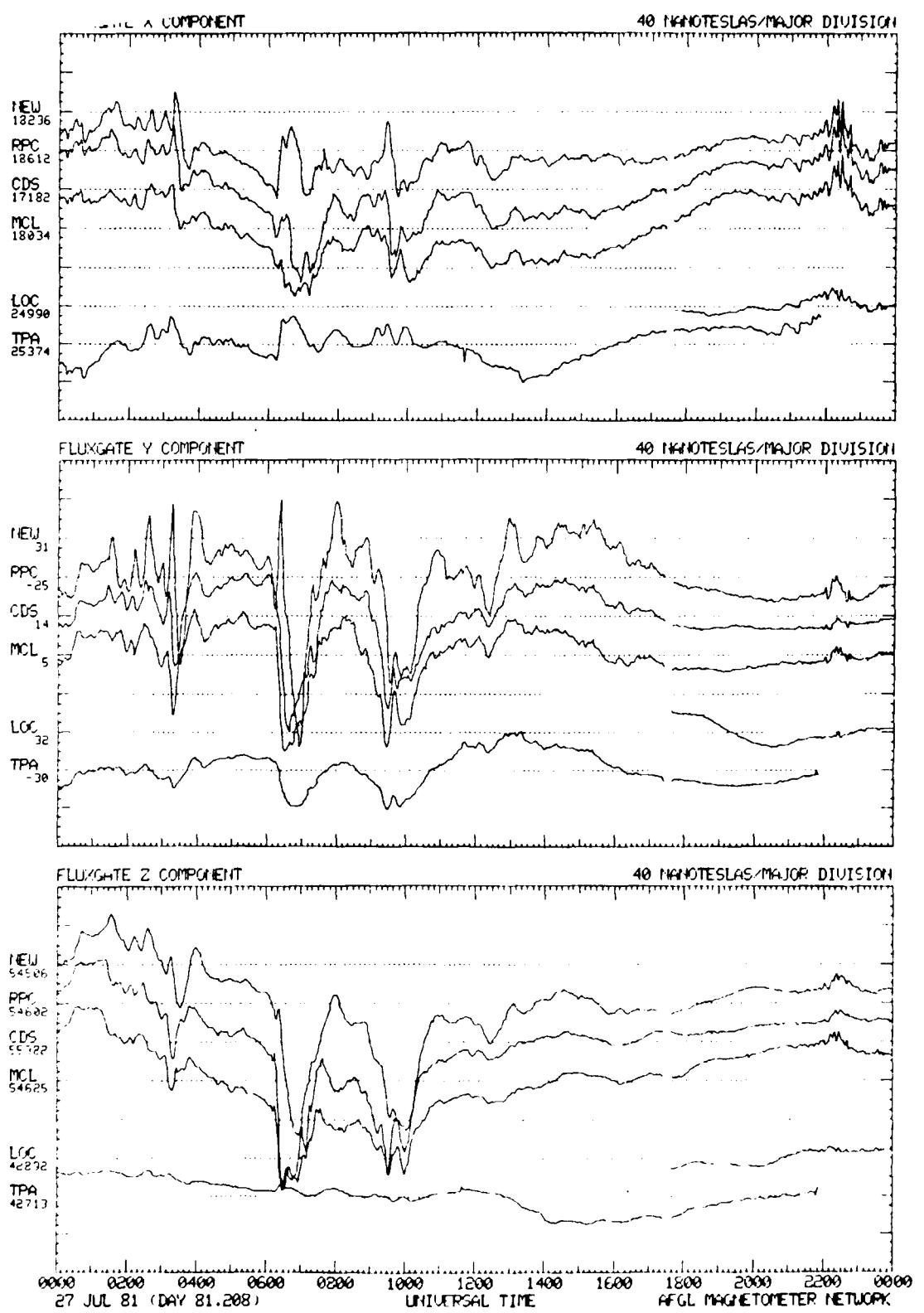
NEW
24.06
PPR
94.673
CDS
56.744
MCL
64.12LOC
42.11
TPA
42.2400000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
24 JUL 81 (DAY 81.205)

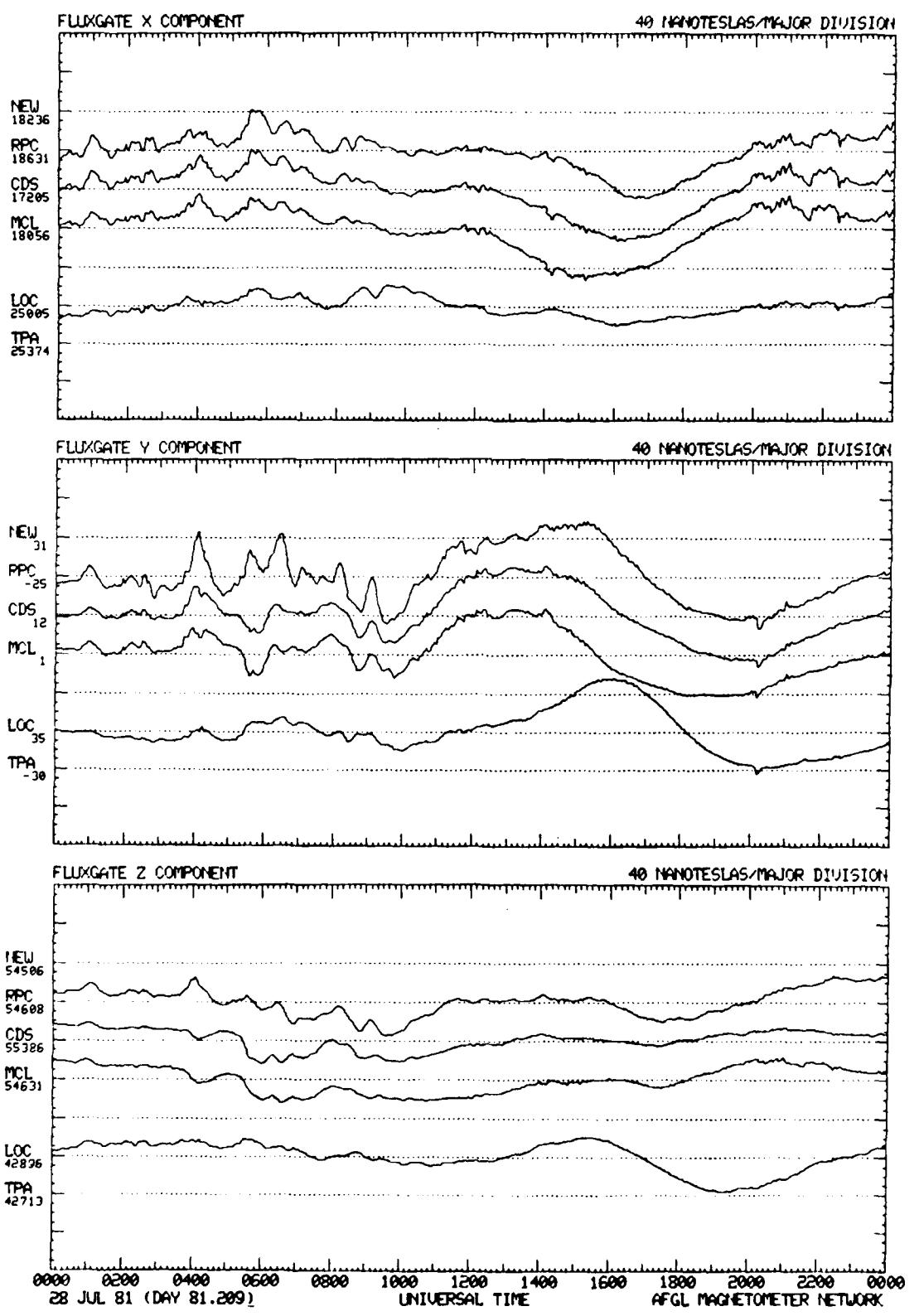
UNIVERSAL TIME

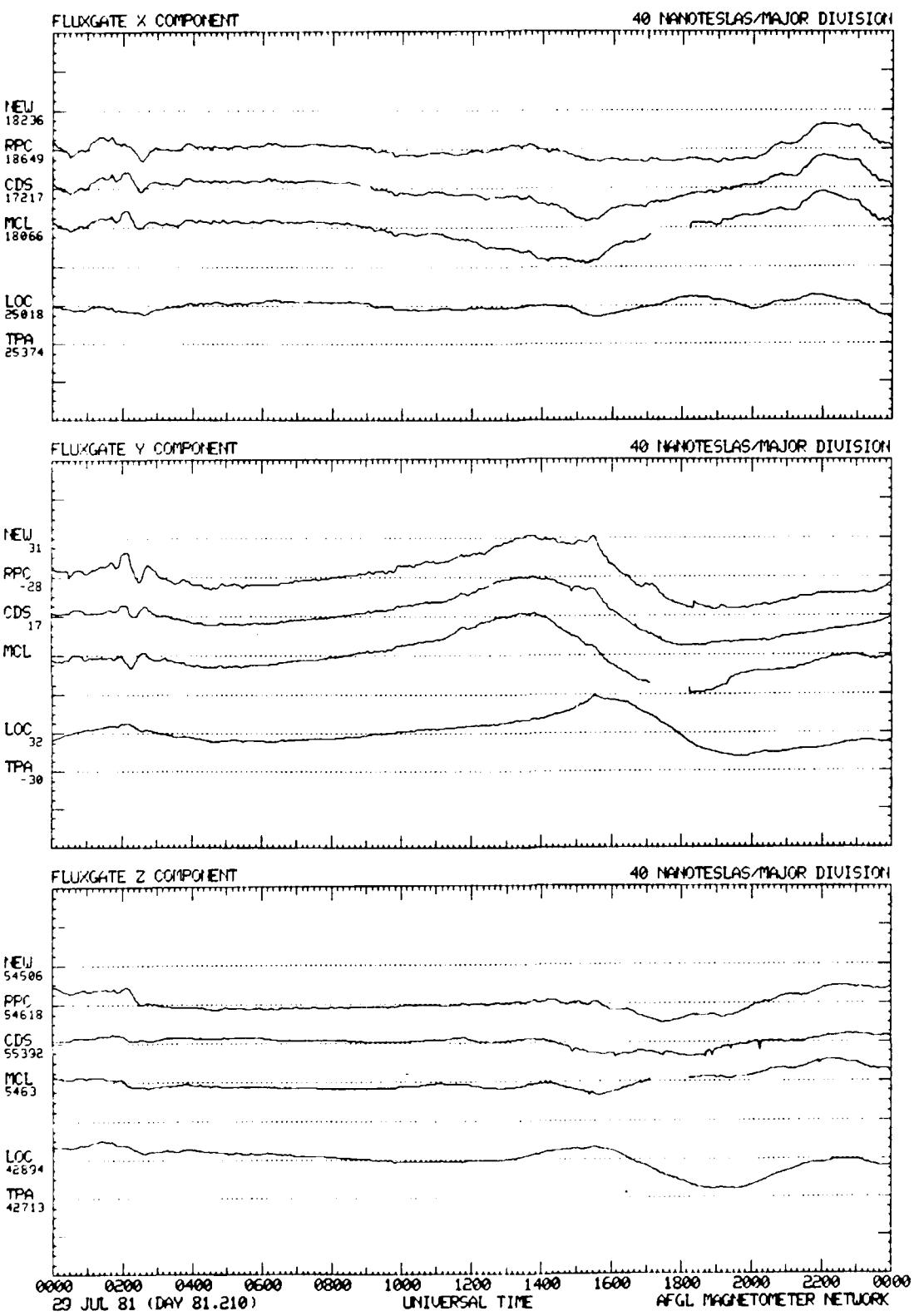
AFGL MAGNETOMETER NETWORK

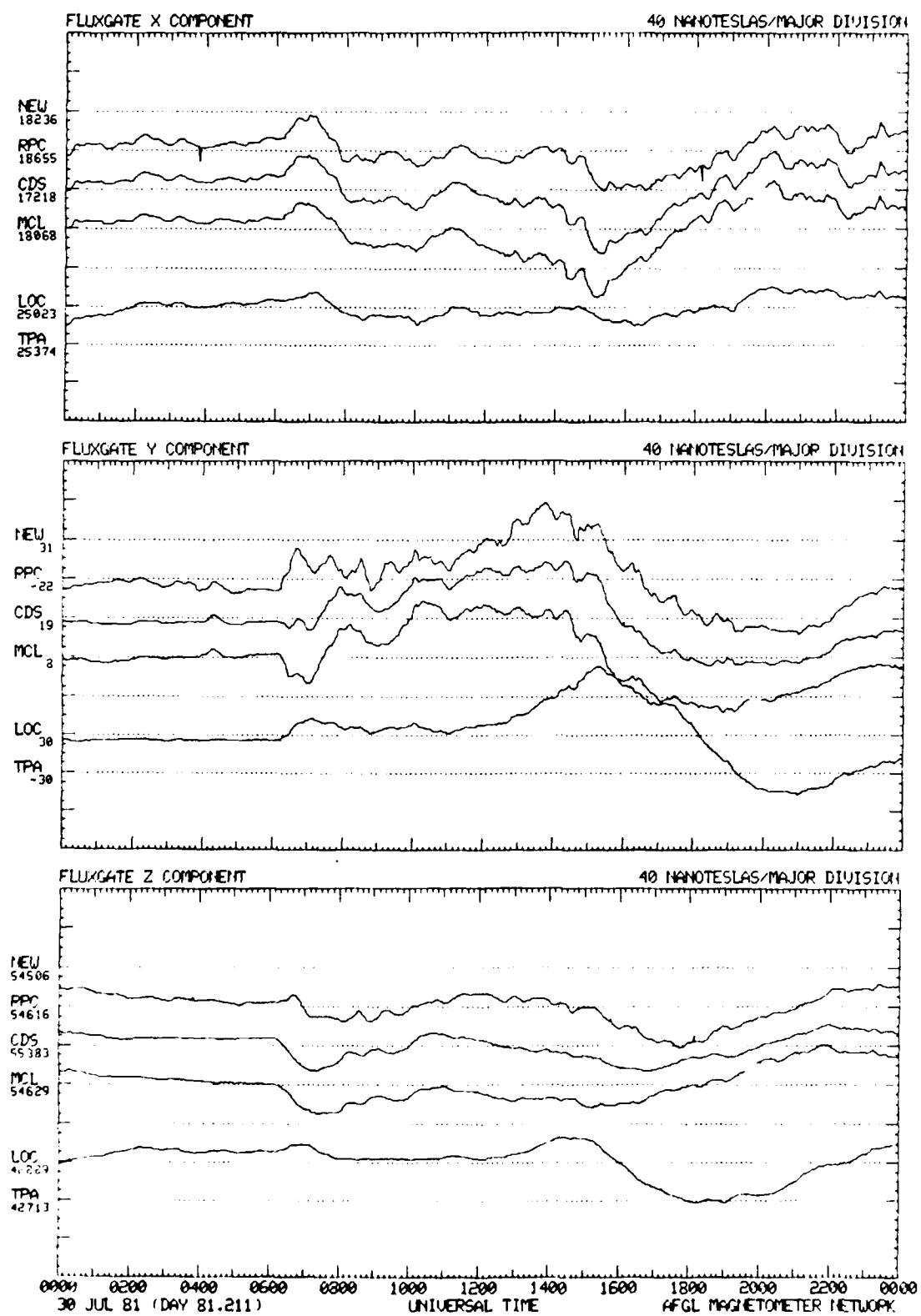


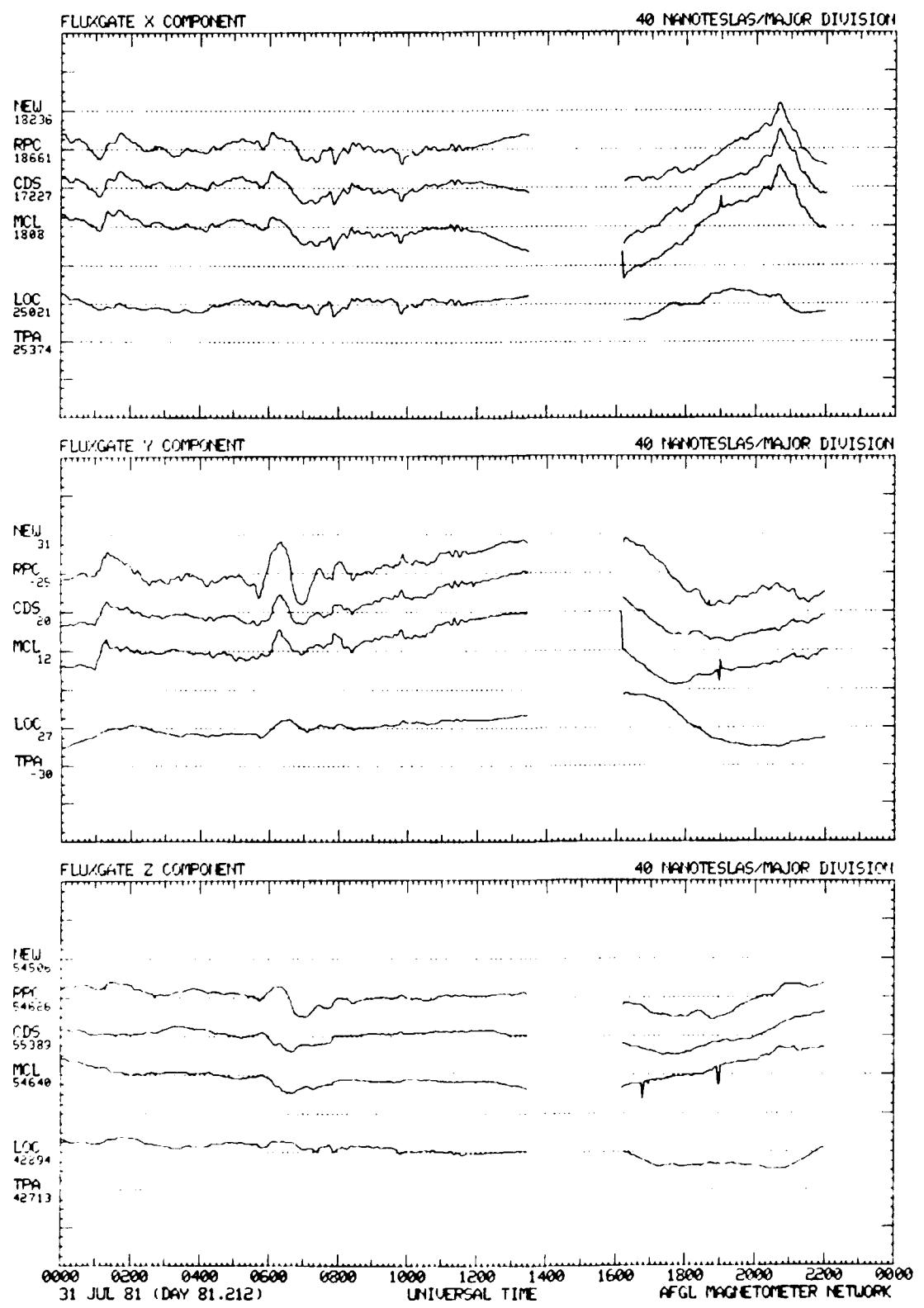












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

RPC
12650CDS
17228MCL
18083LOC
25014

FLUXGATE Y COMPONENT

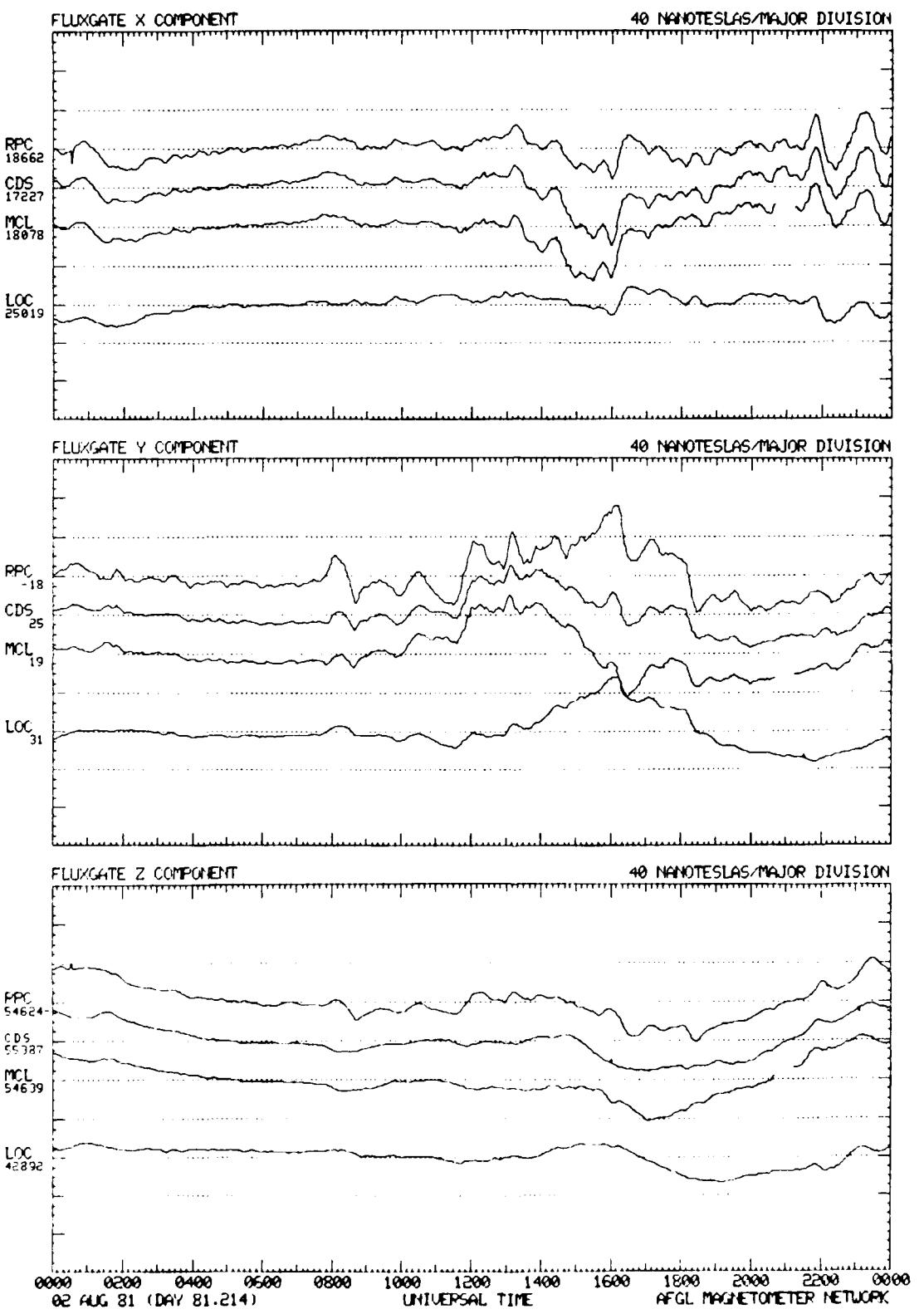
40 NANOTESLAS/MAJOR DIVISION

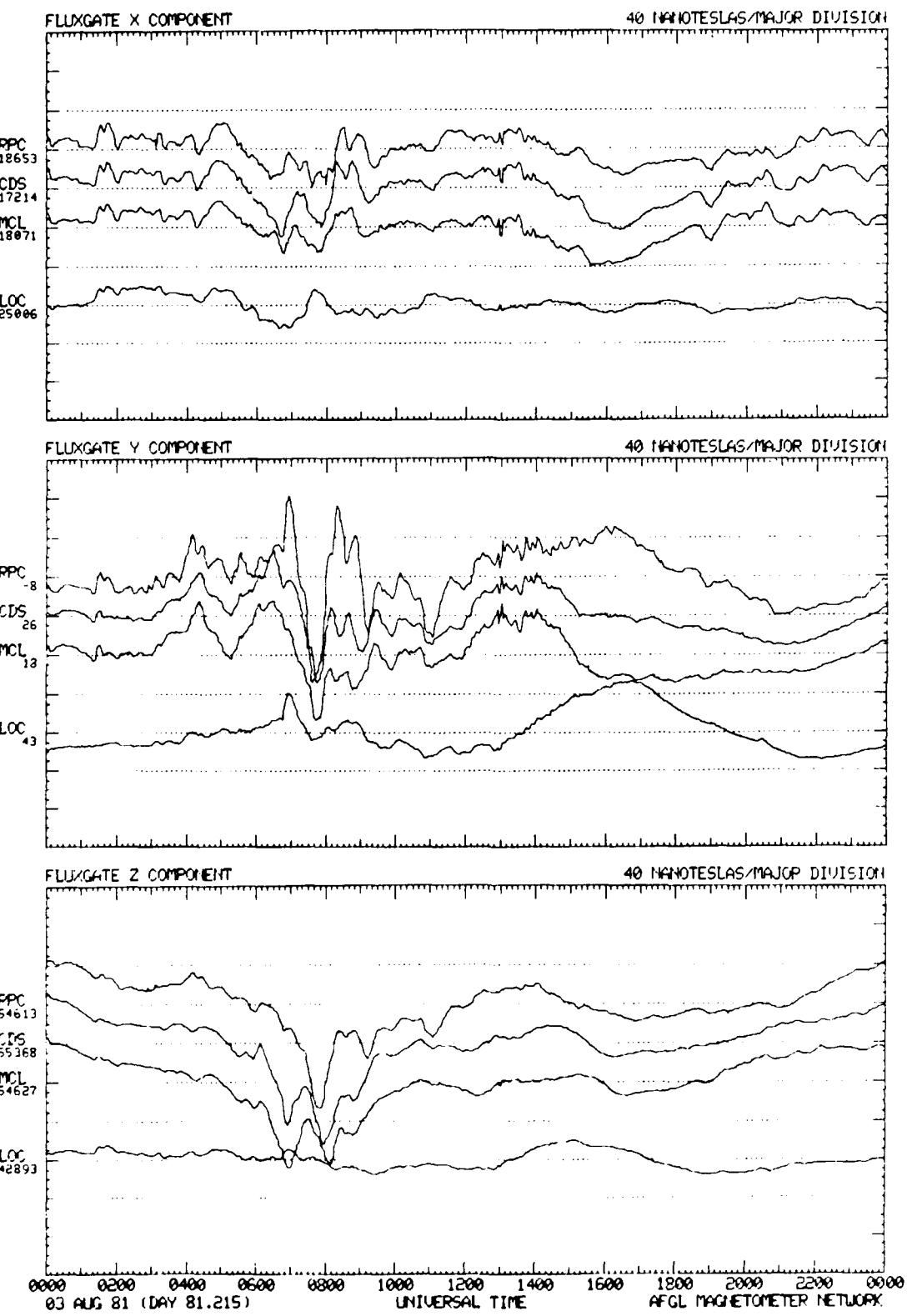
RPC
-52CDS
-7MCL
-3LOC
2

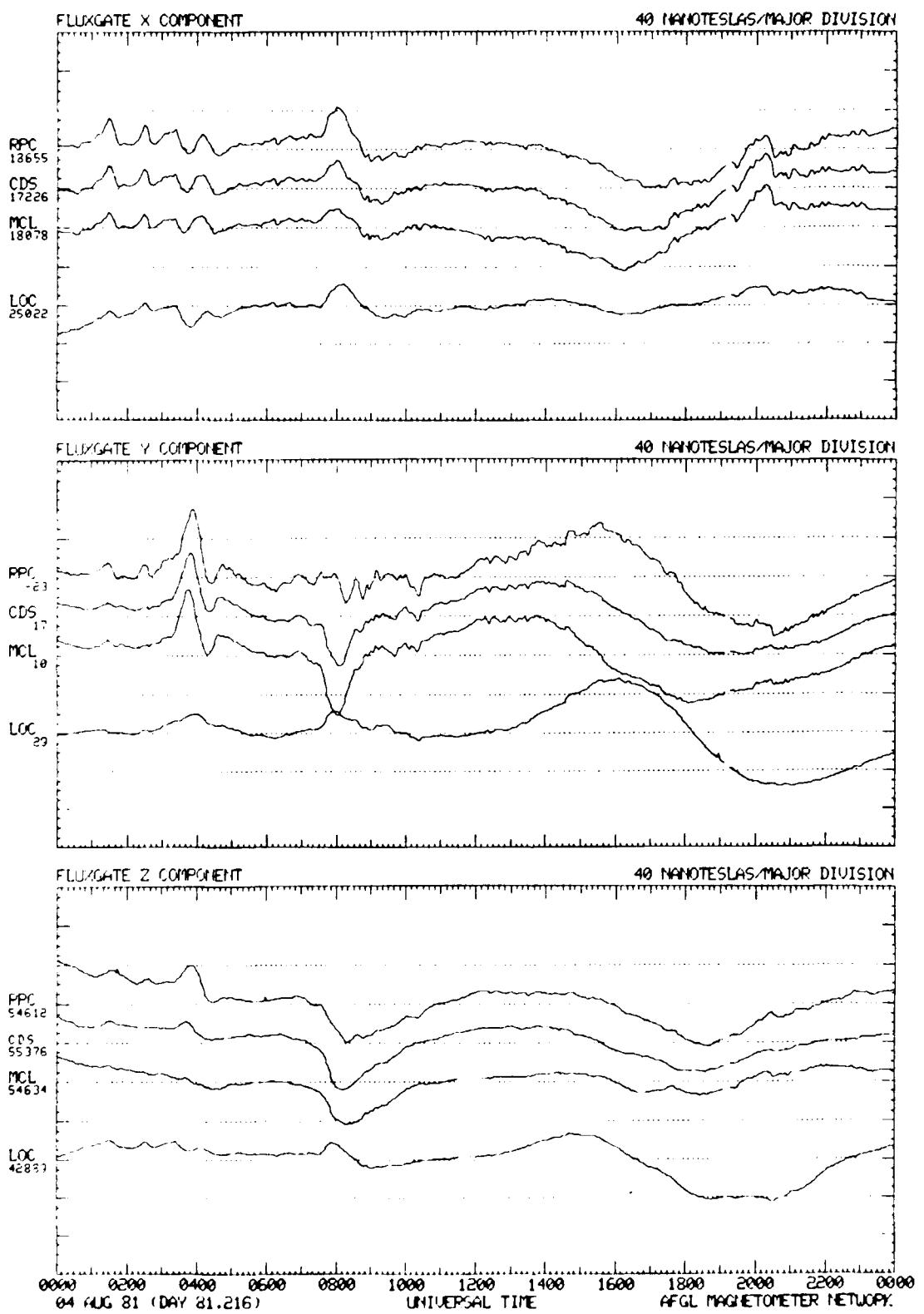
FLUXGATE Z COMPONENT

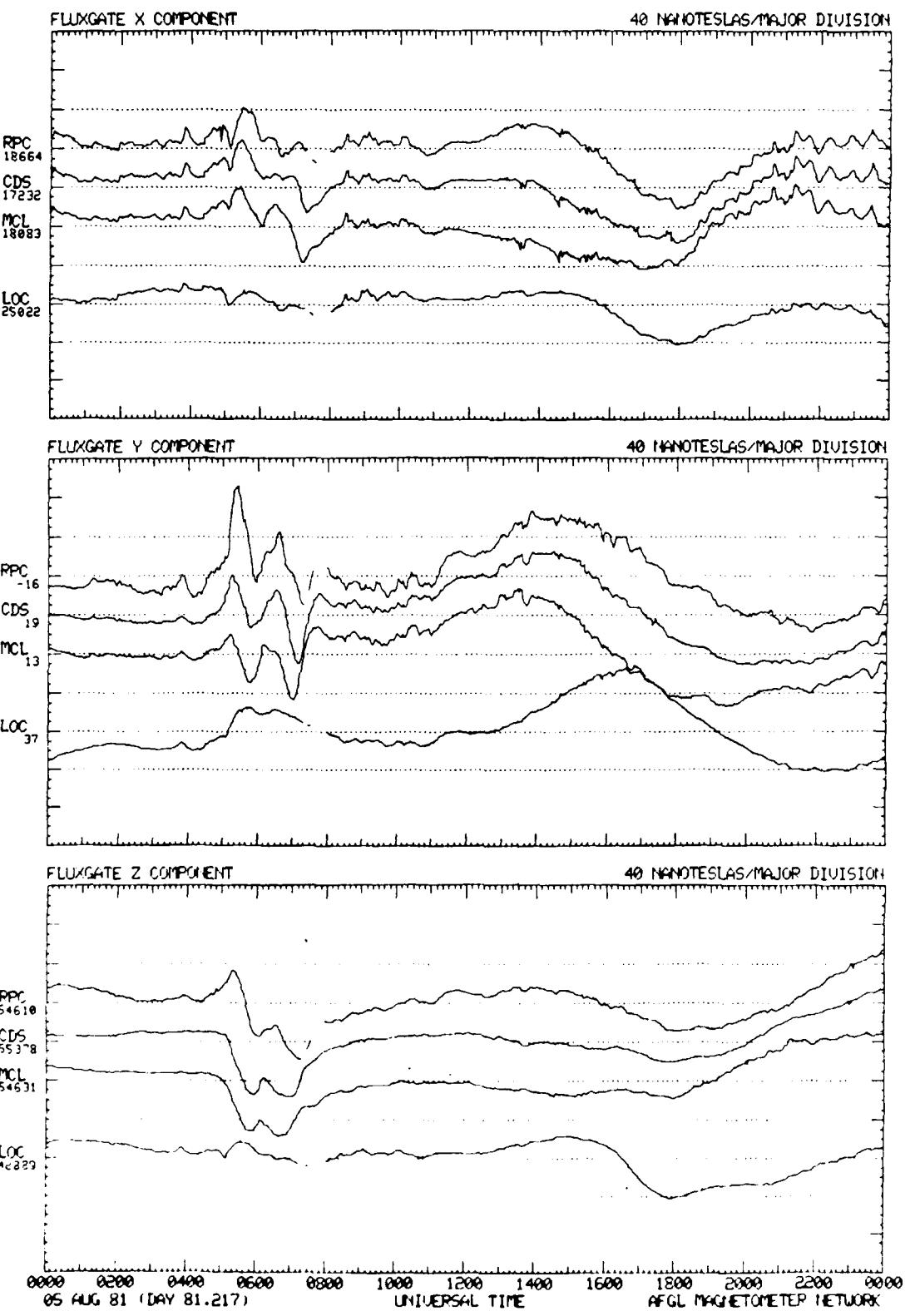
40 NANOTESLAS/MAJOR DIVISION

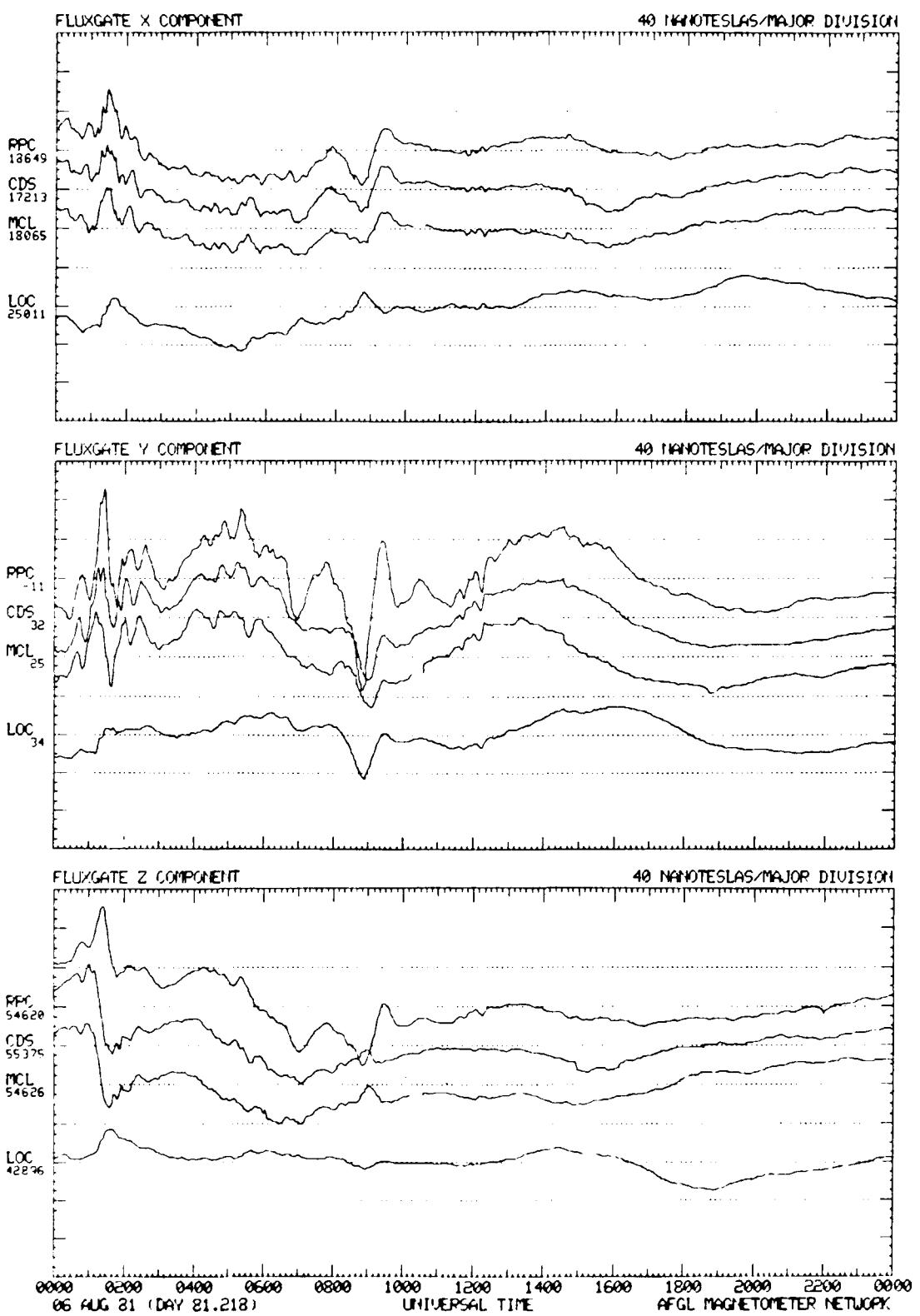
RPC
54633CDS
55487MCL
54670LOC
428770000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
01 AUG 81 (DAY 81.213) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

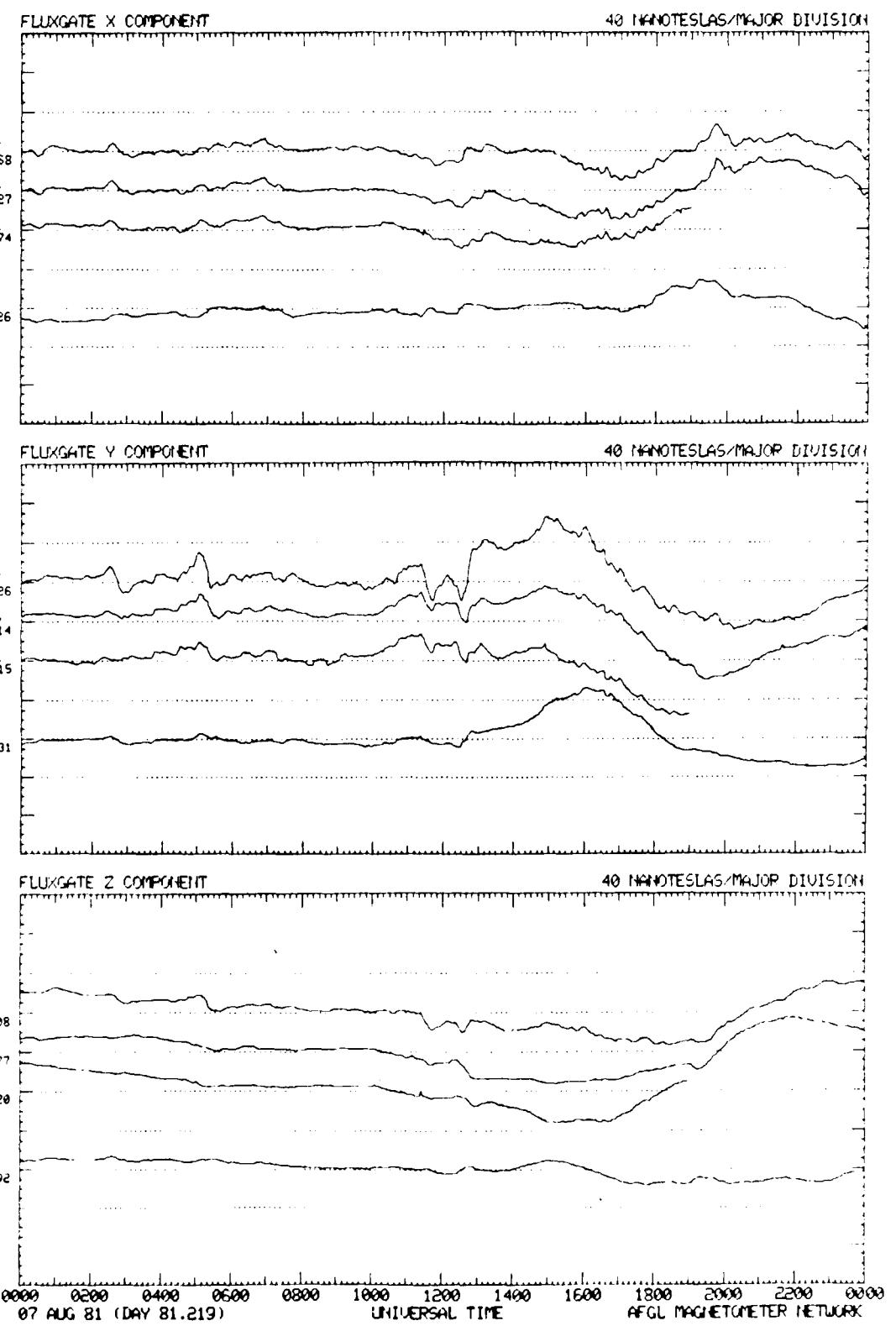


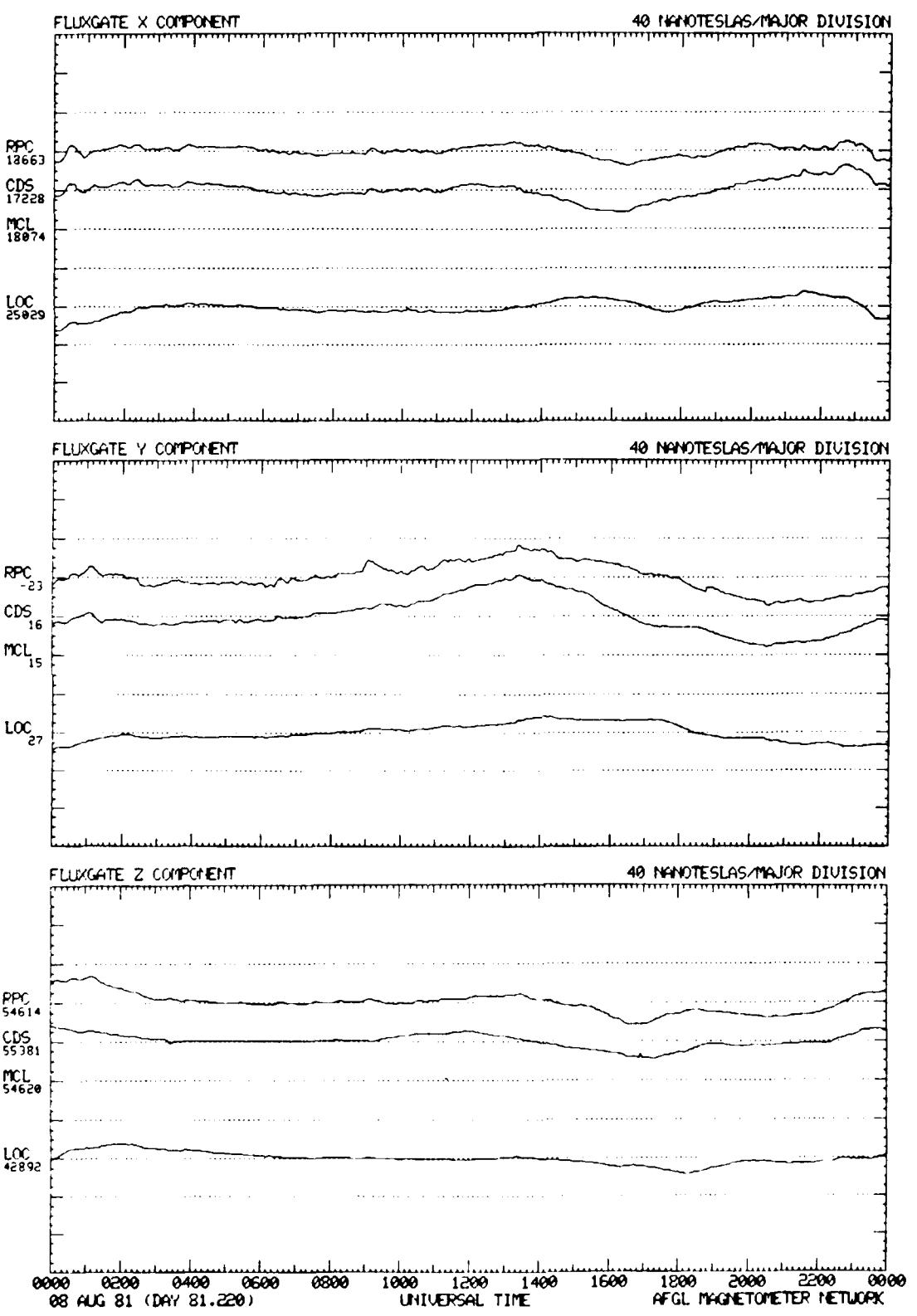


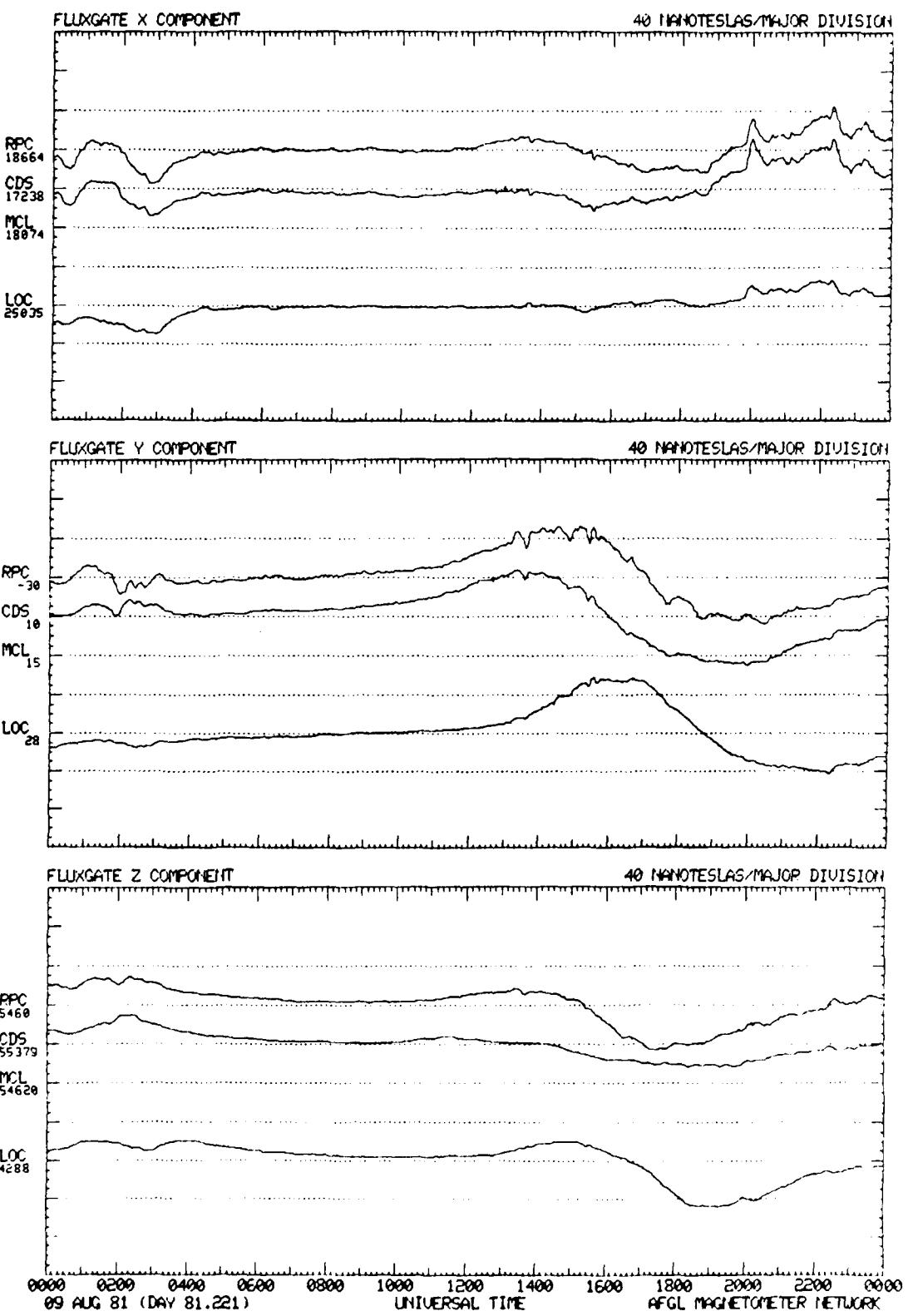


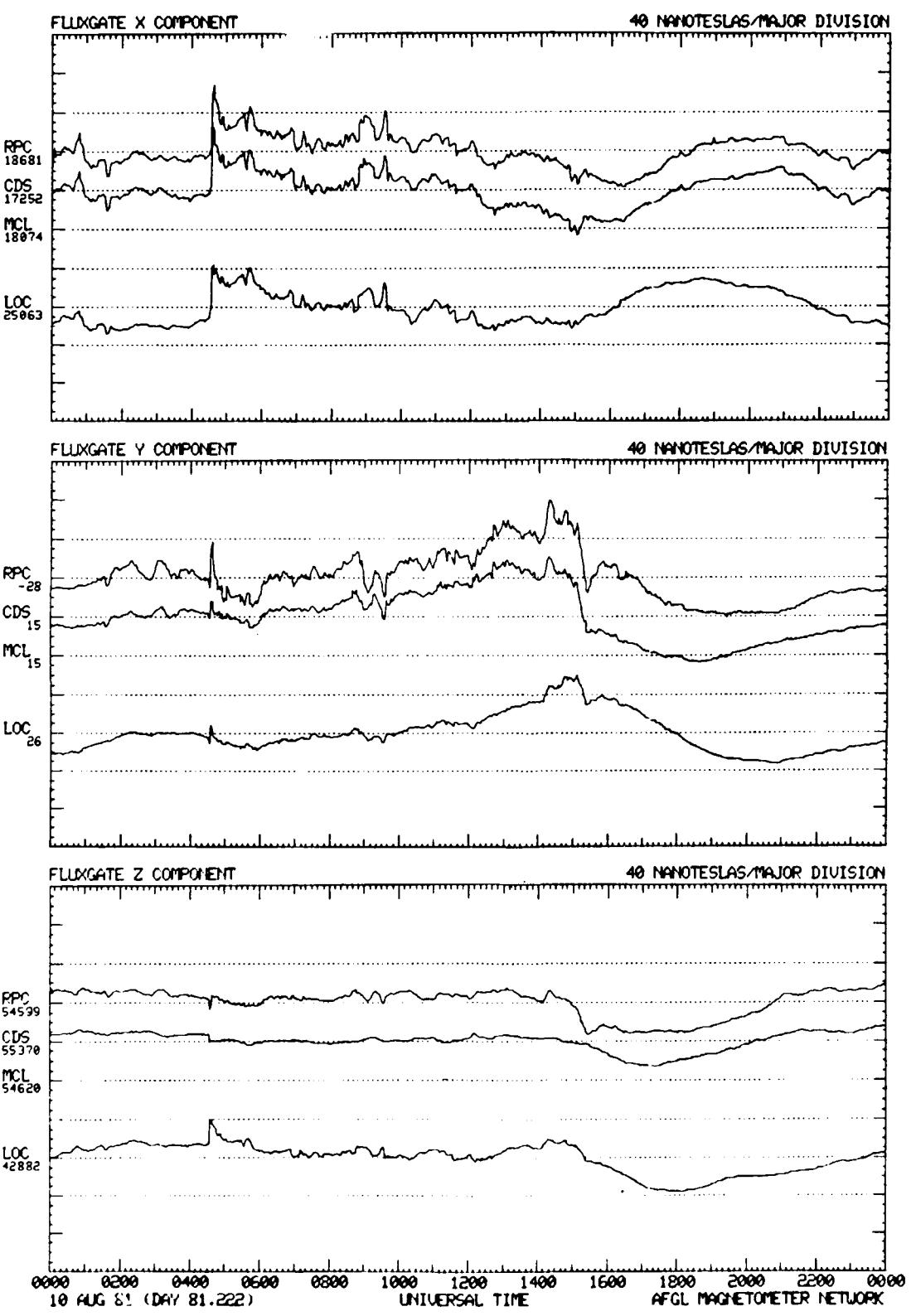


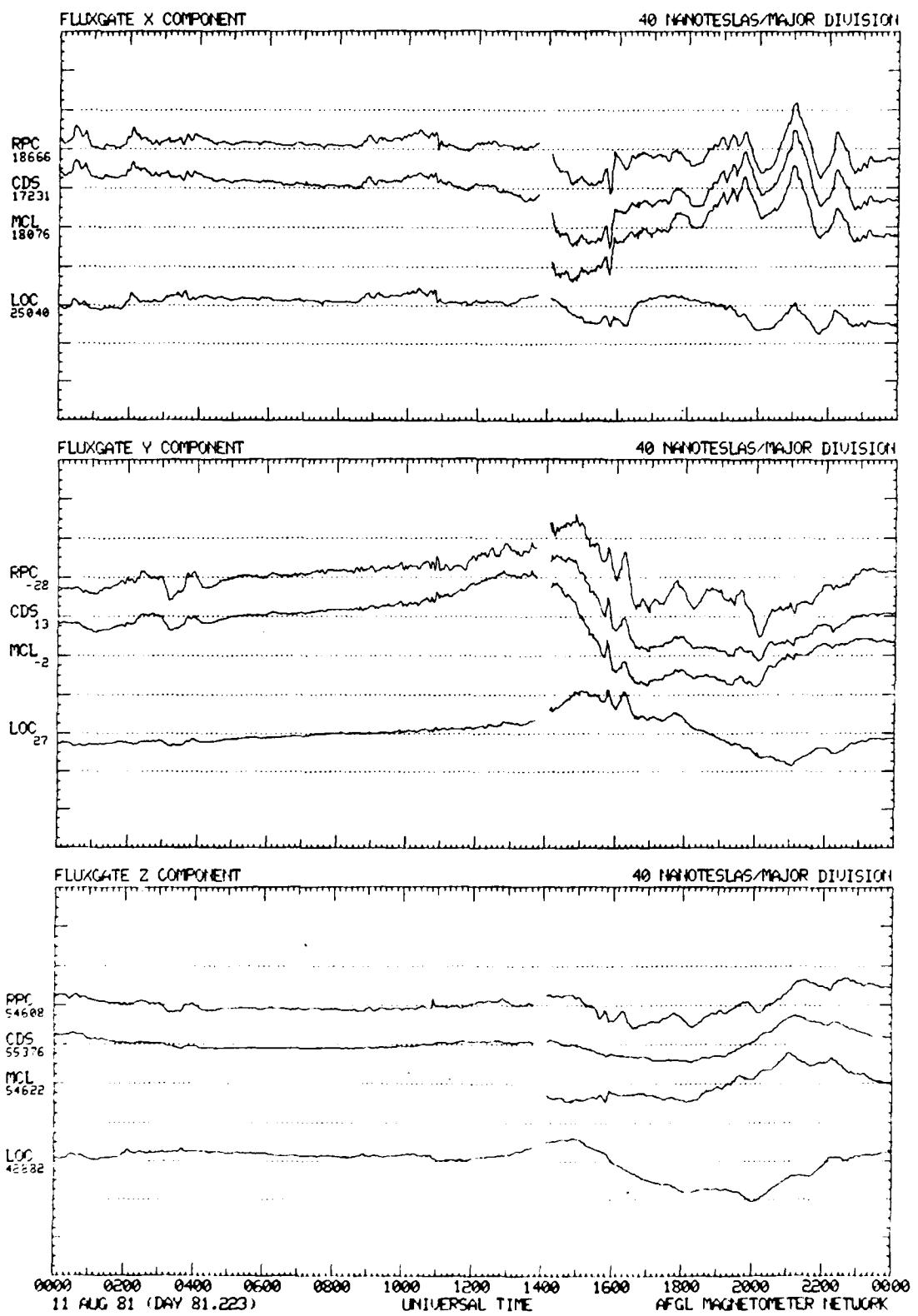


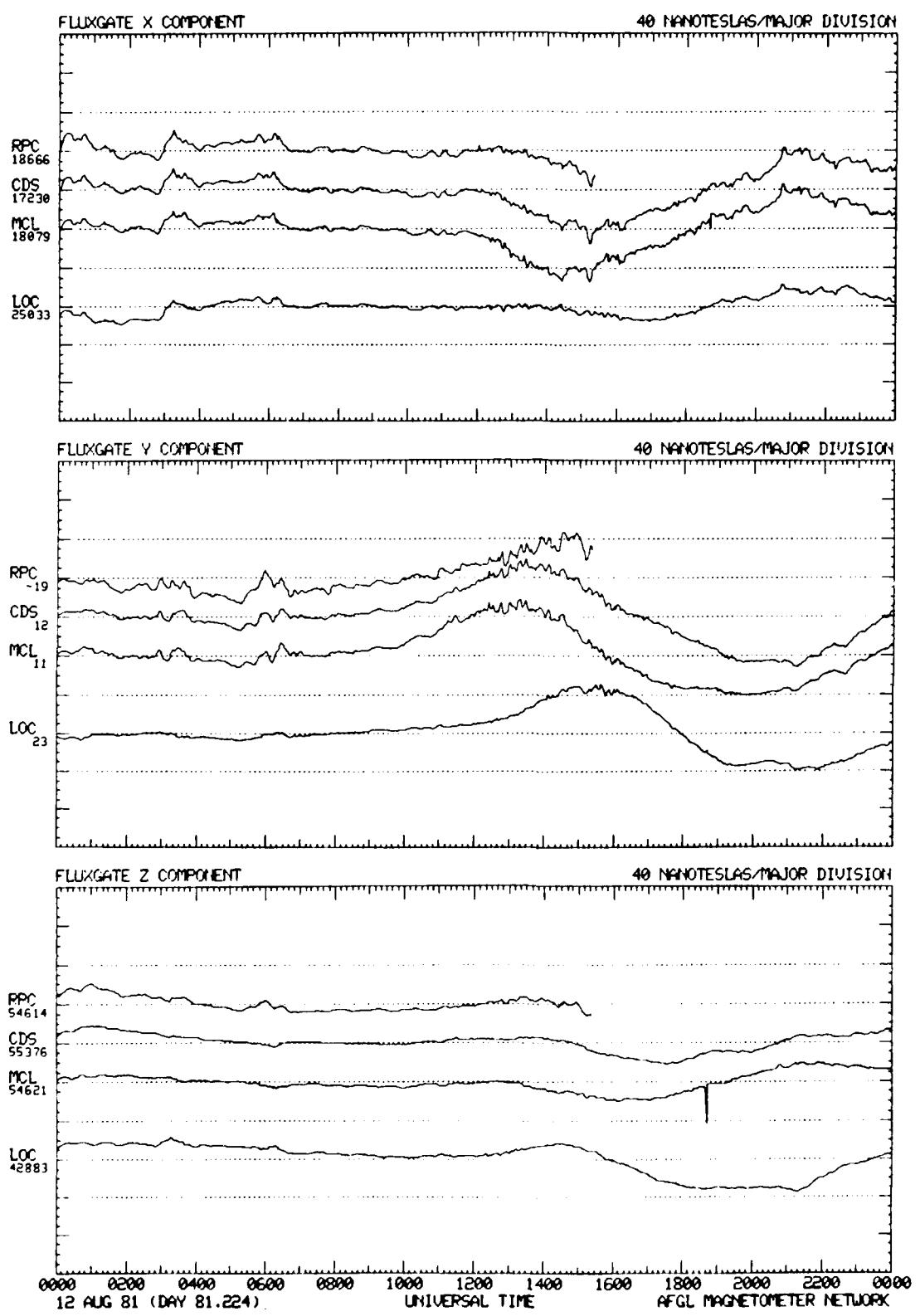












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

RPC

18666

CDS

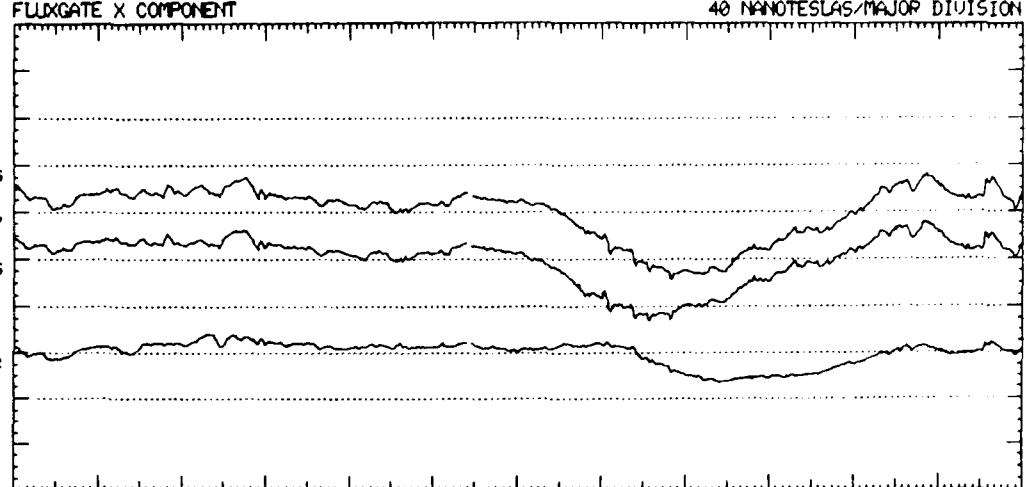
17227

MCL

18876

LOC

25032



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

RPC

-19

CDS

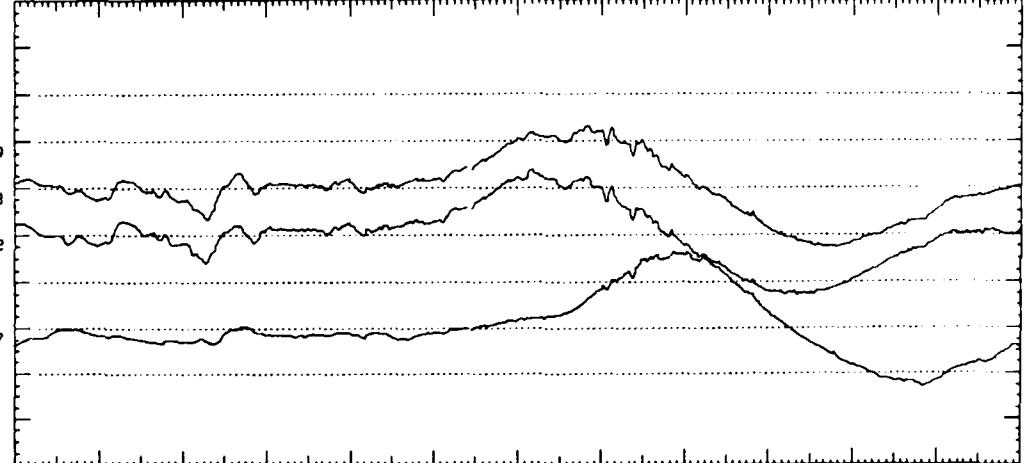
13

MCL

12

LOC

27



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

RPC

54614

CDS

55378

MCL

5462

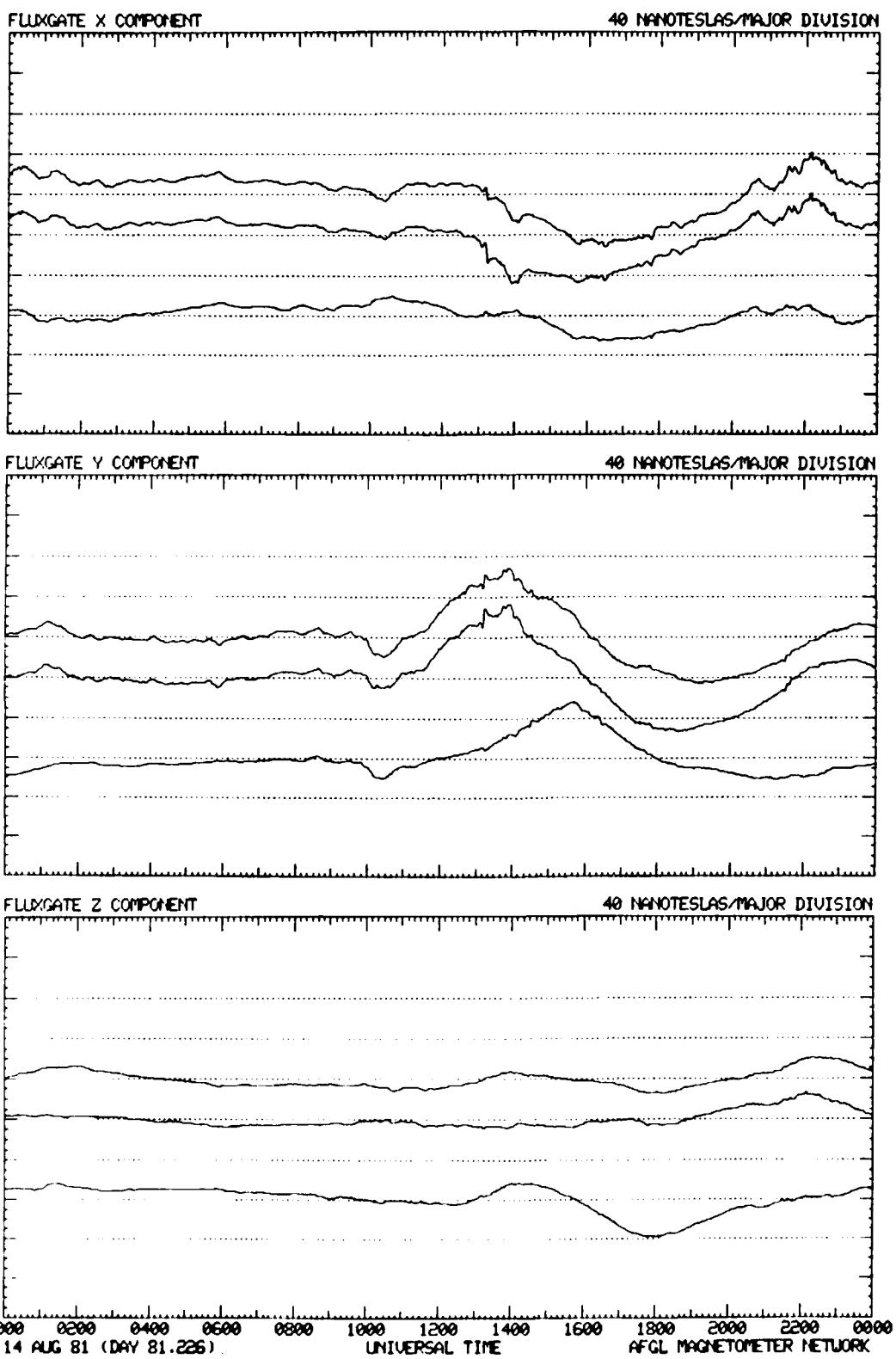
LOC

42881

13 AUG 81 (DAY 81.225)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

RPC
18666CDS
17233MCL
18080LOC
25037

FLUXGATE Y COMPONENT

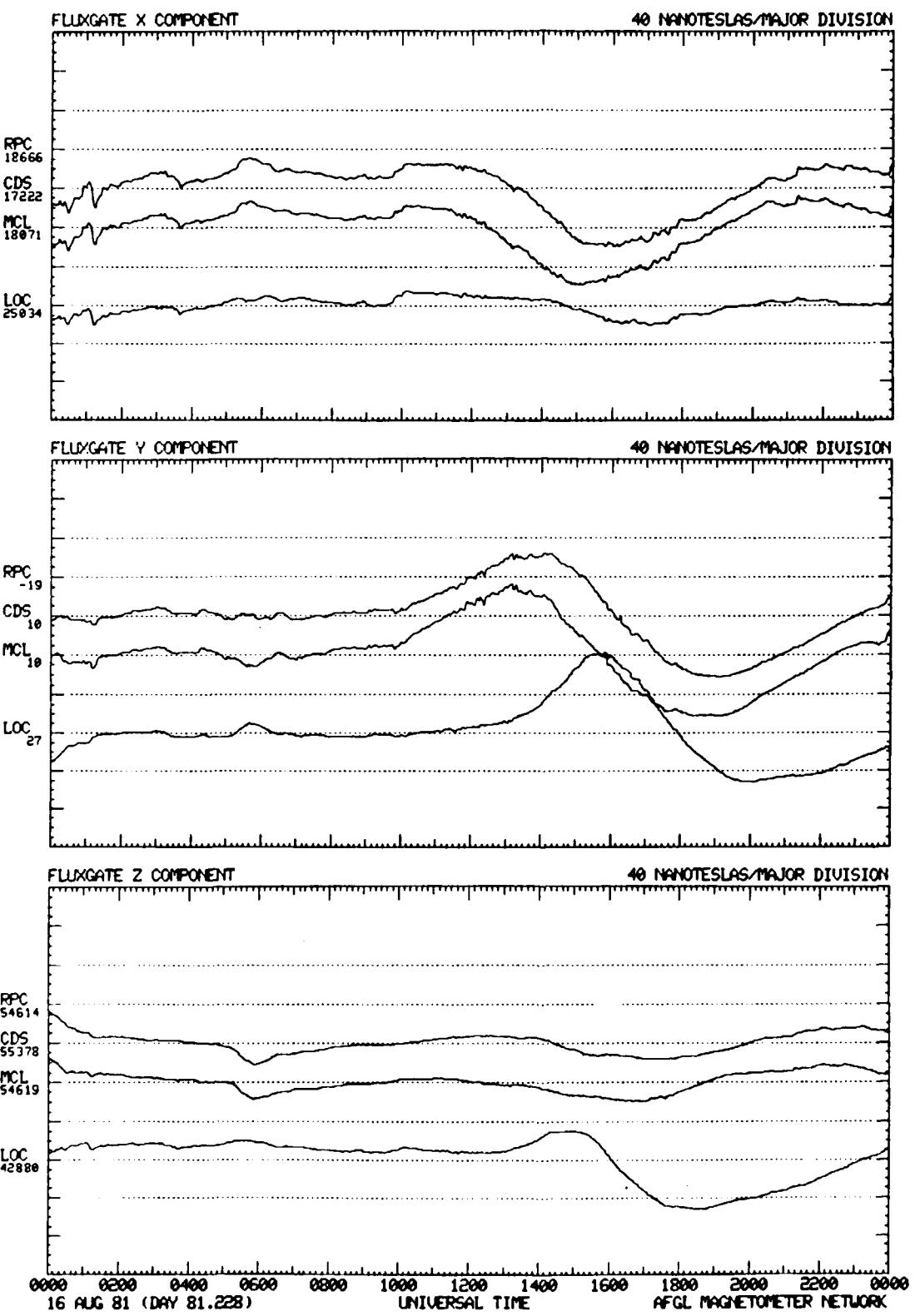
40 NANOTESLAS/MAJOR DIVISION

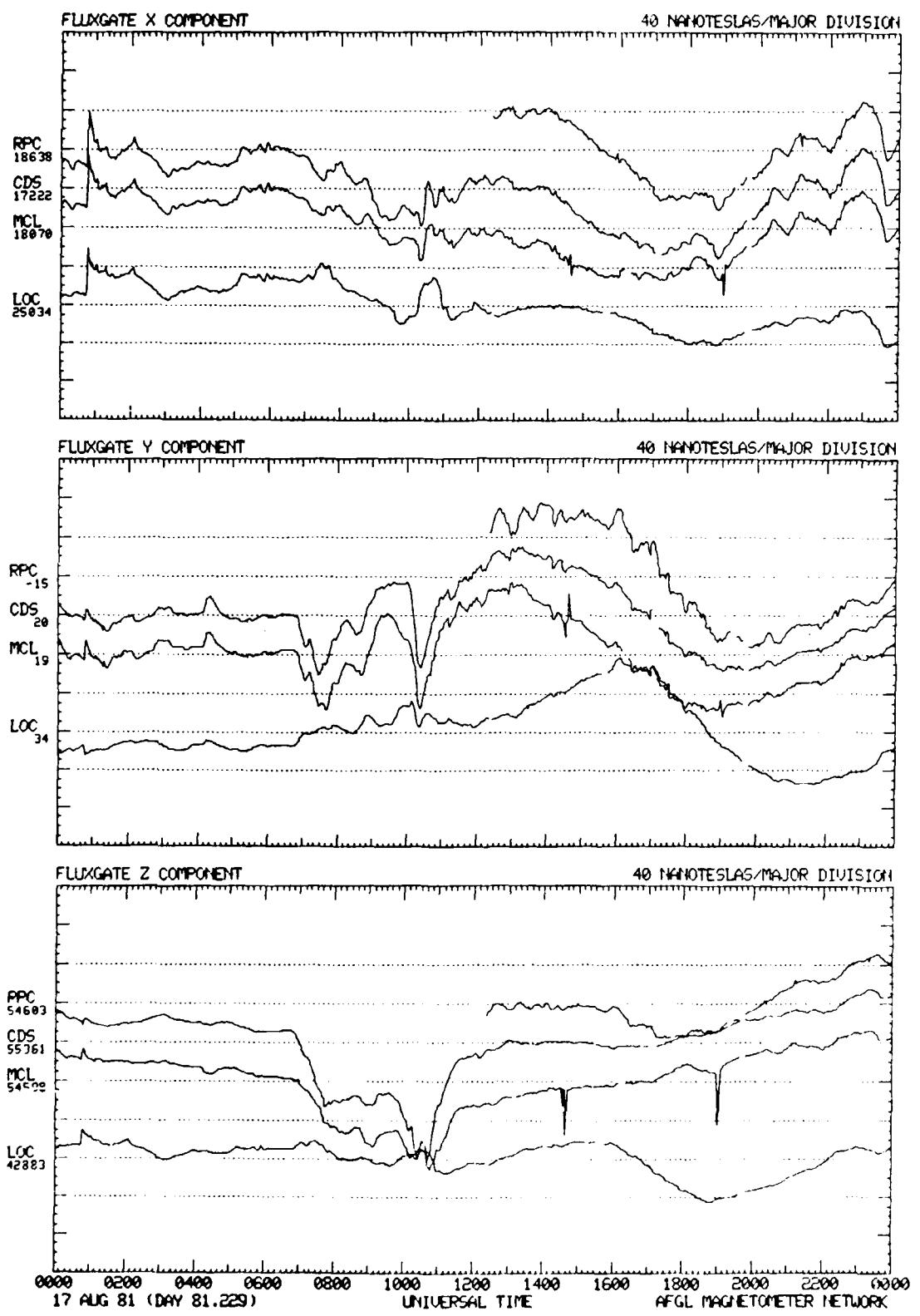
RPC
-19CDS
14MCL
16LOC
1

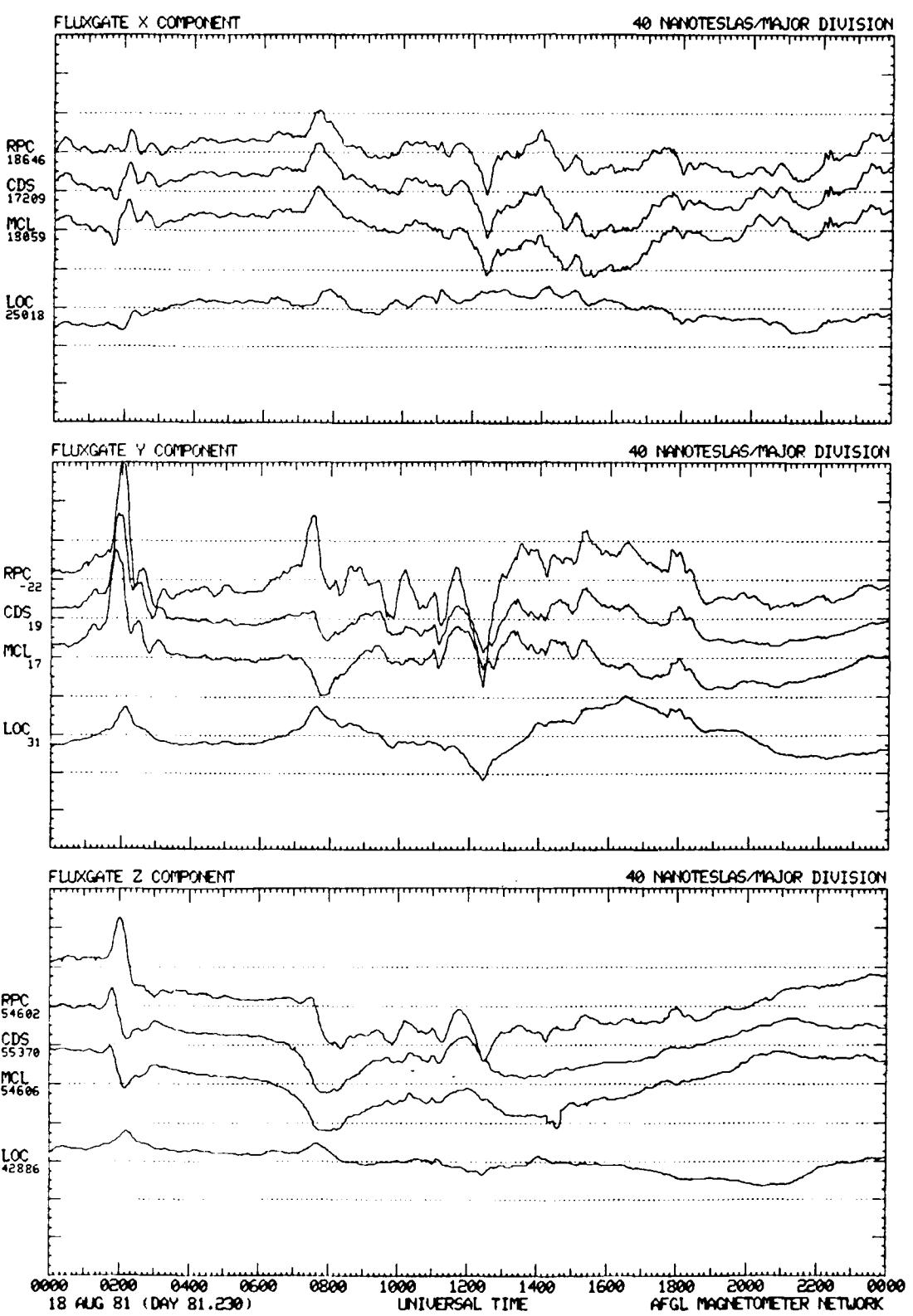
FLUXGATE Z COMPONENT

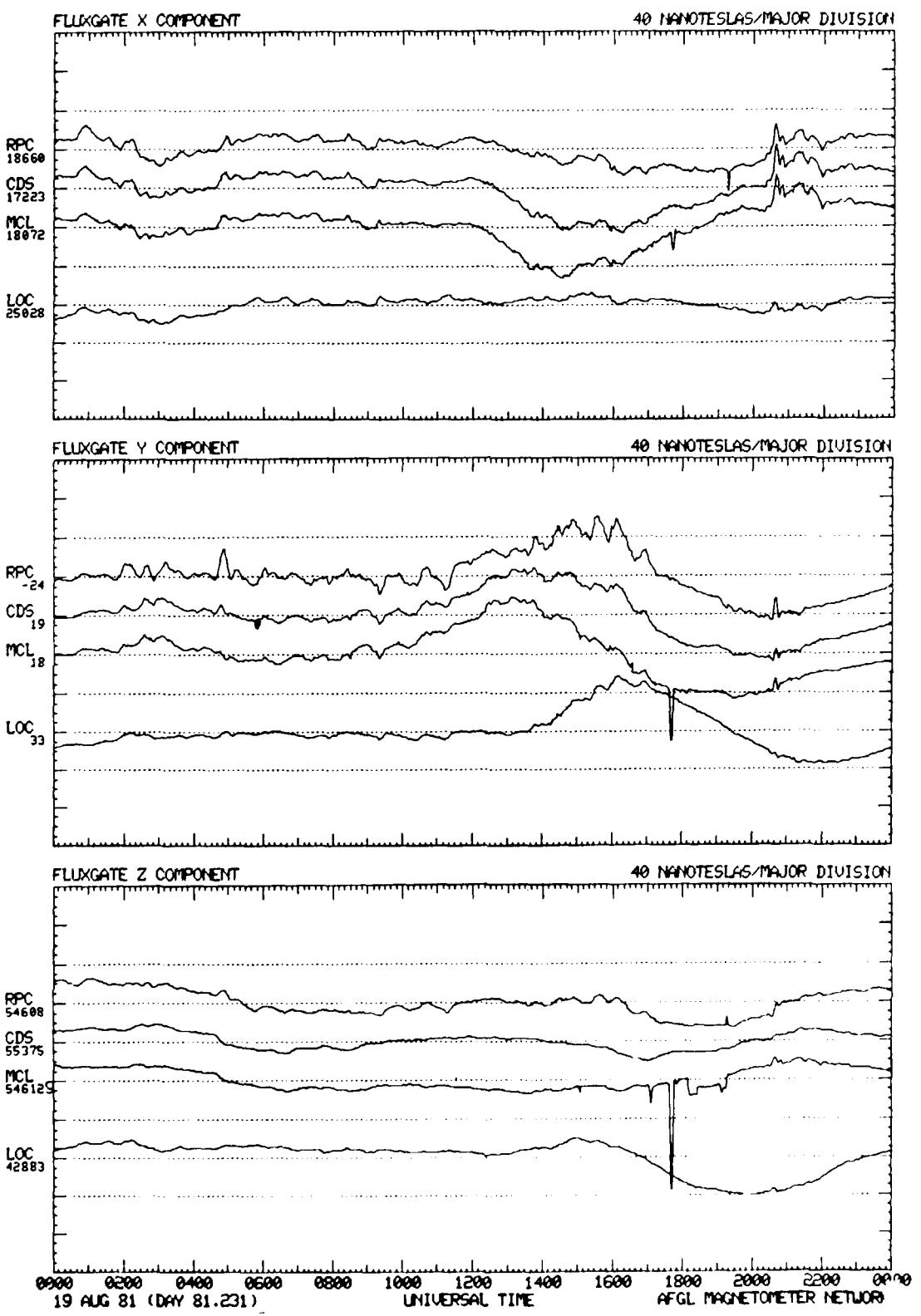
40 NANOTESLAS/MAJOR DIVISION

RPC
54614CDS
55379MCL
54624LOC
428800000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 AUG 81 (DAY 81.227) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



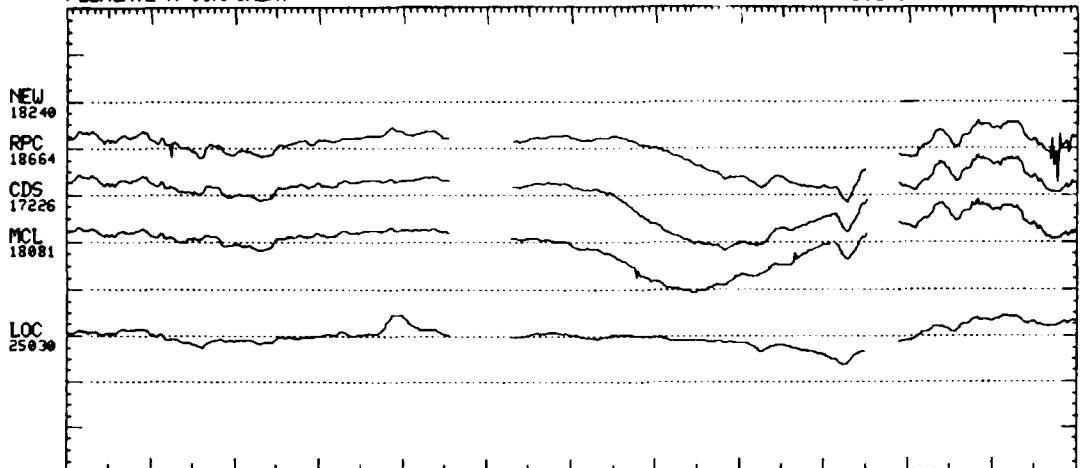






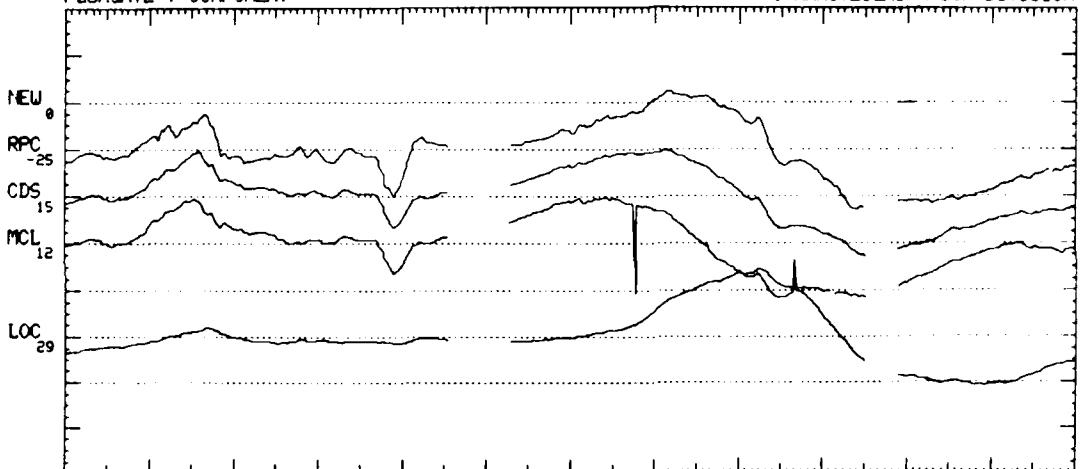
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



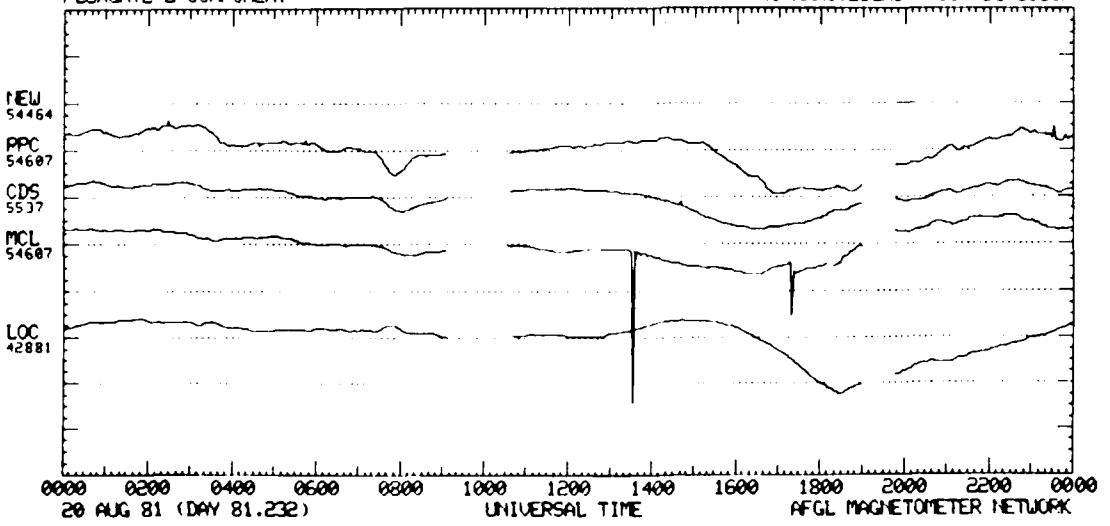
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

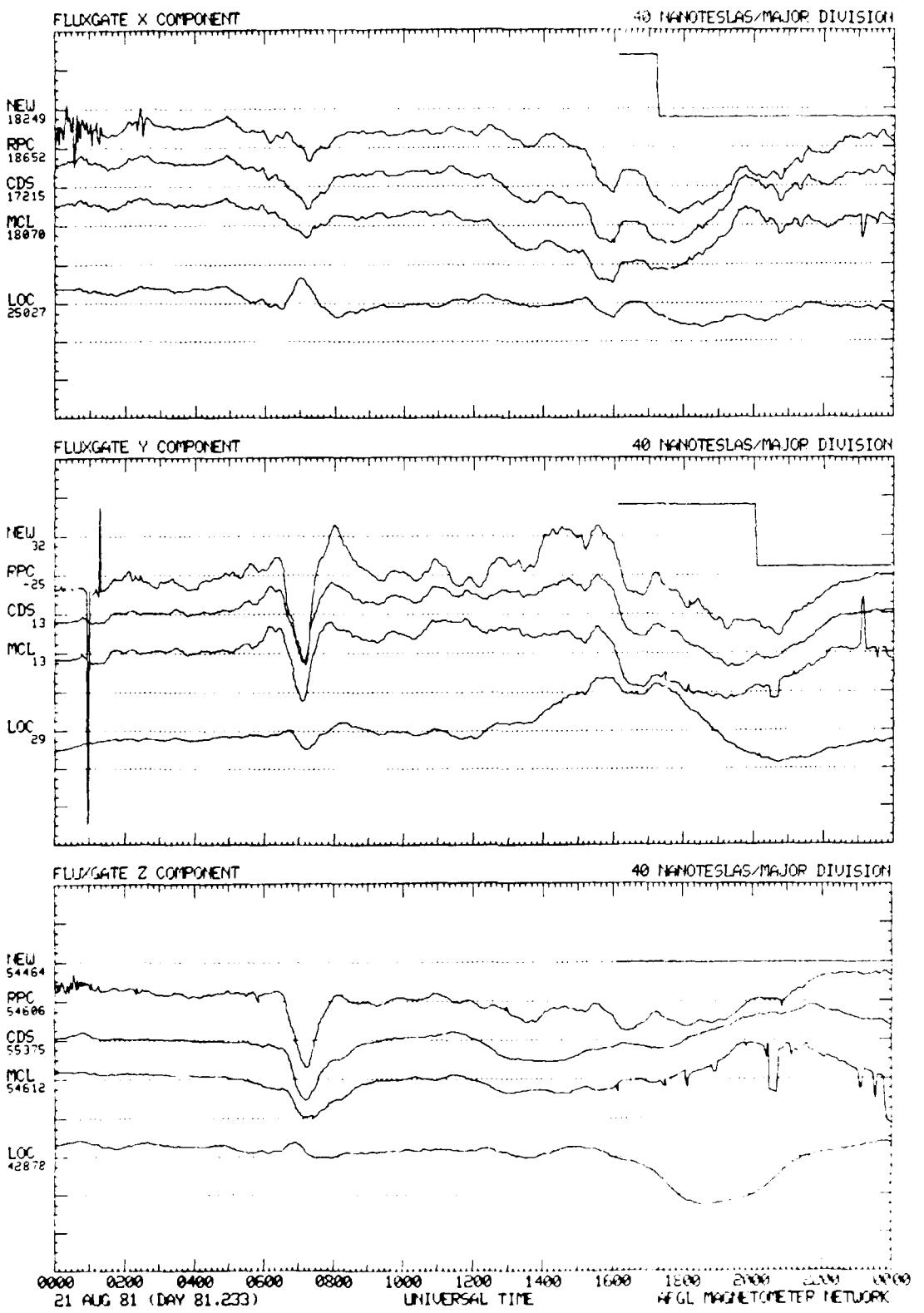


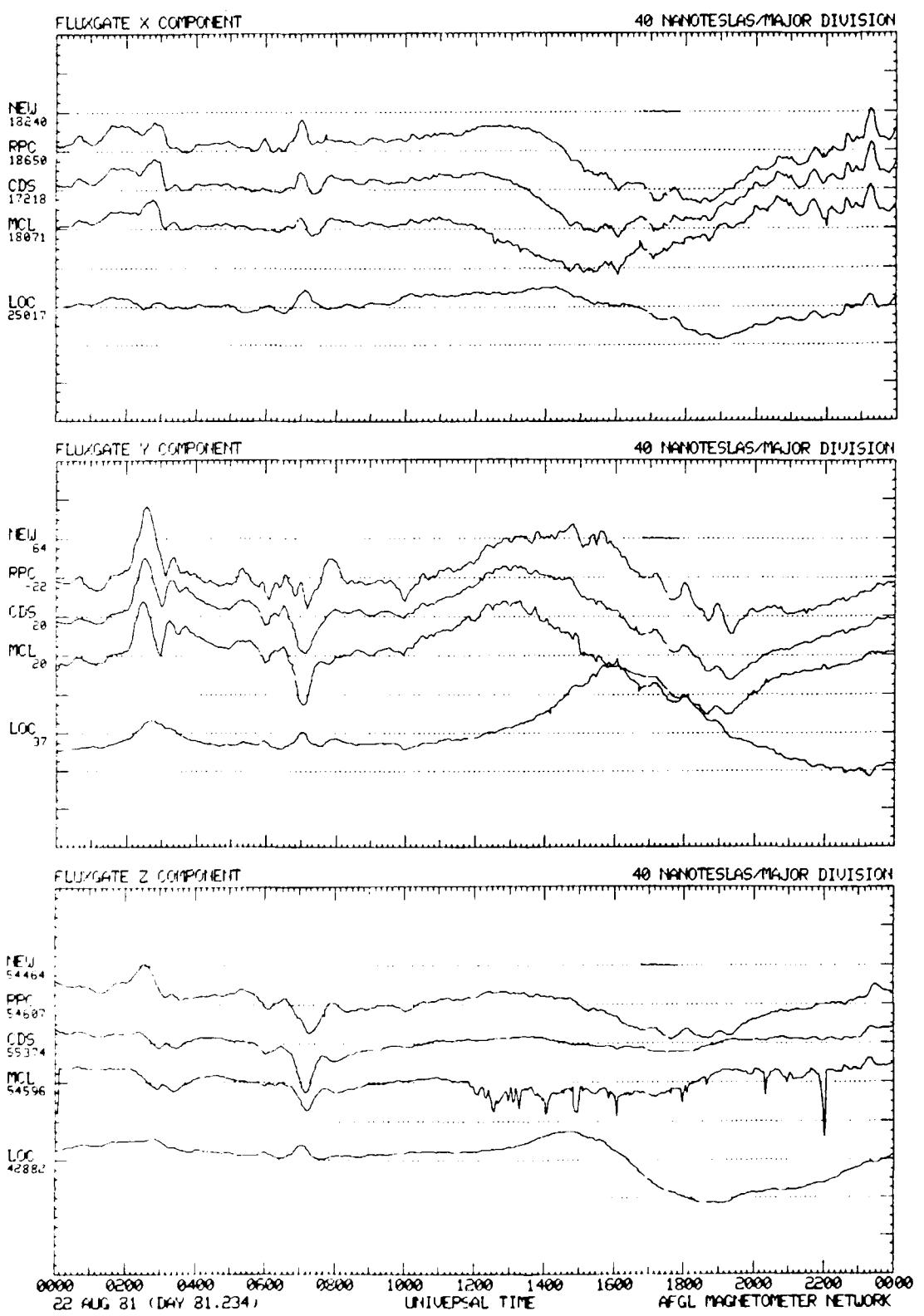
FLUXGATE Z COMPONENT

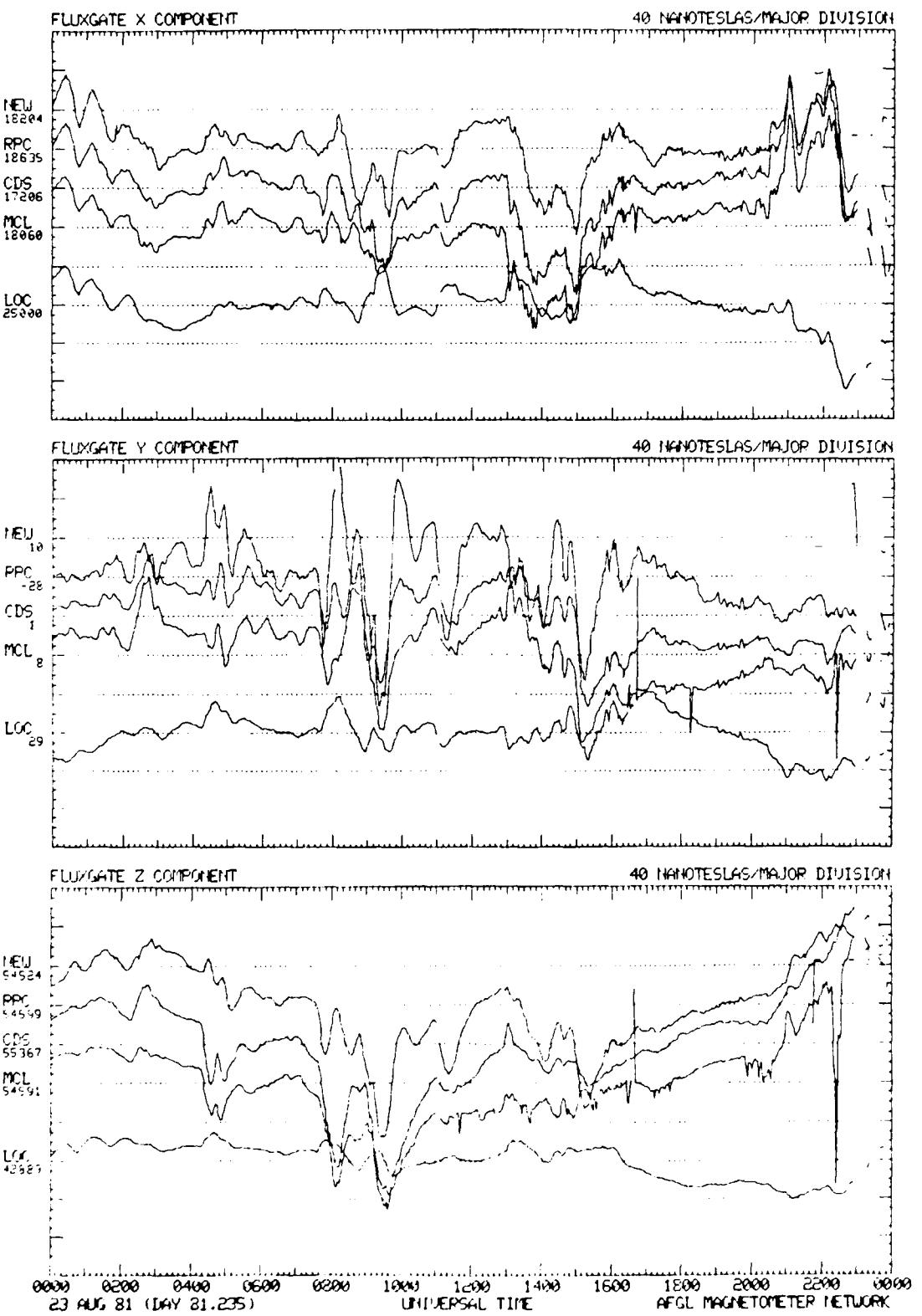
40 NANOTESLAS/MAJOR DIVISION

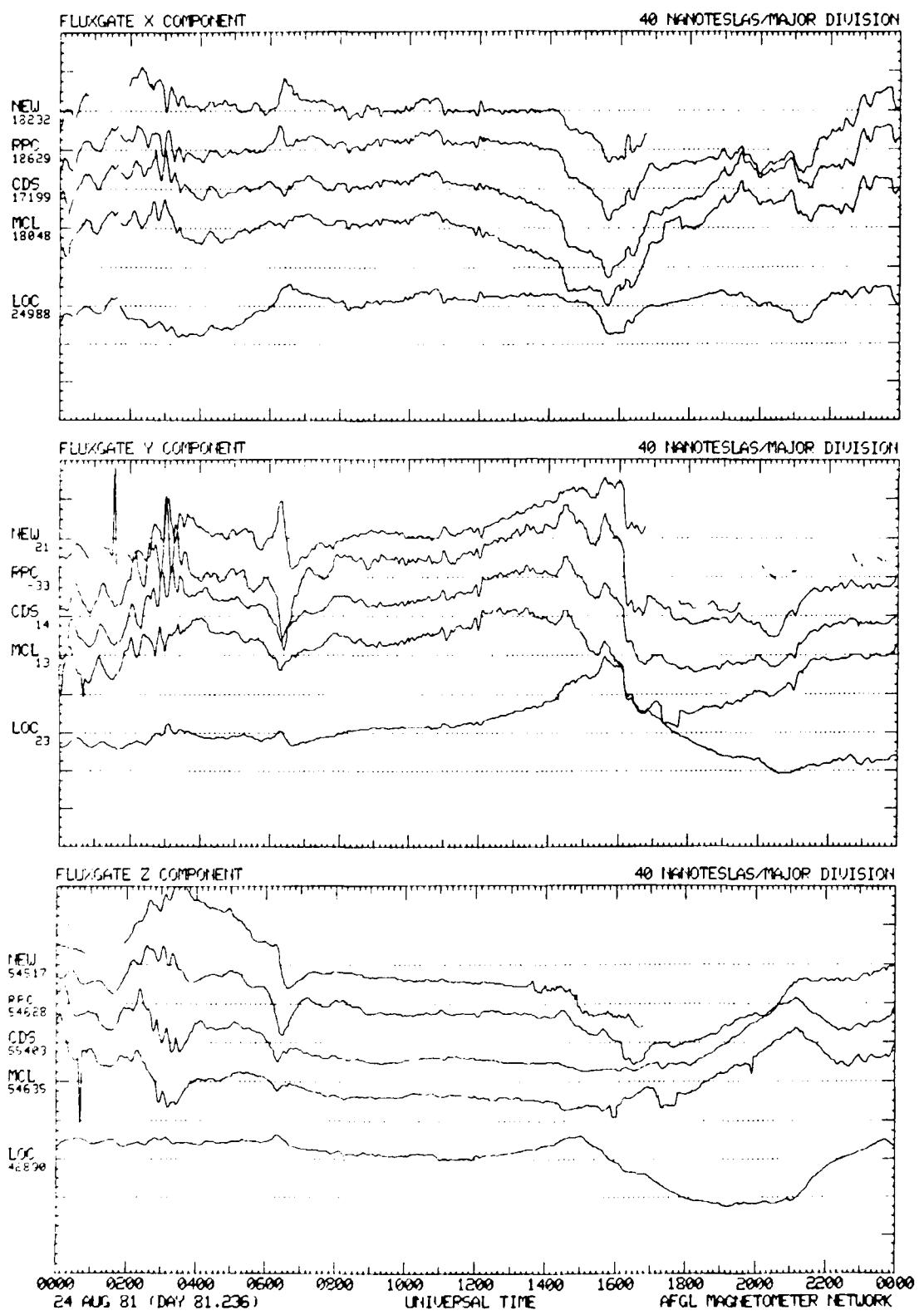


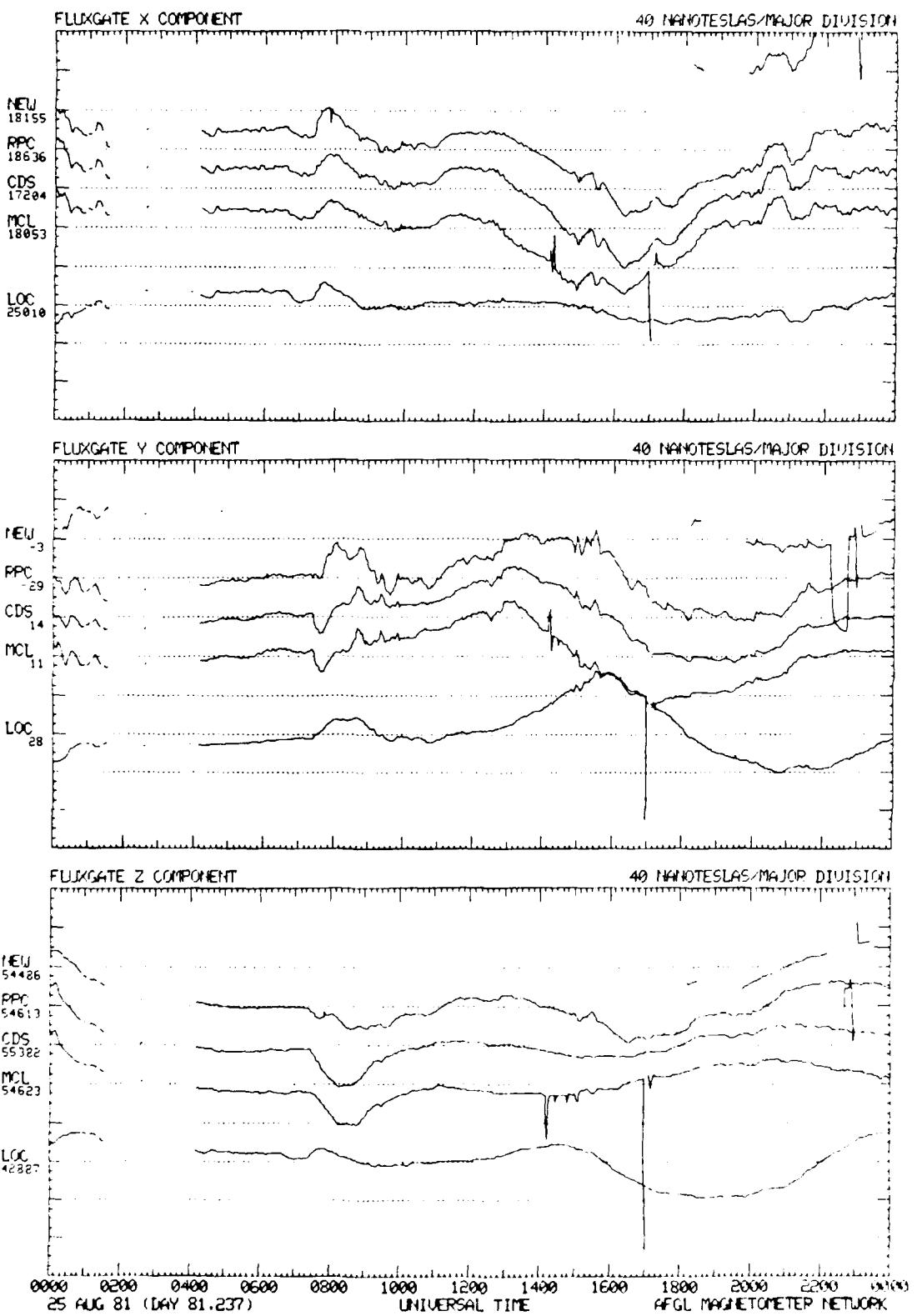
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 AUG 81 (DAY 81.232) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

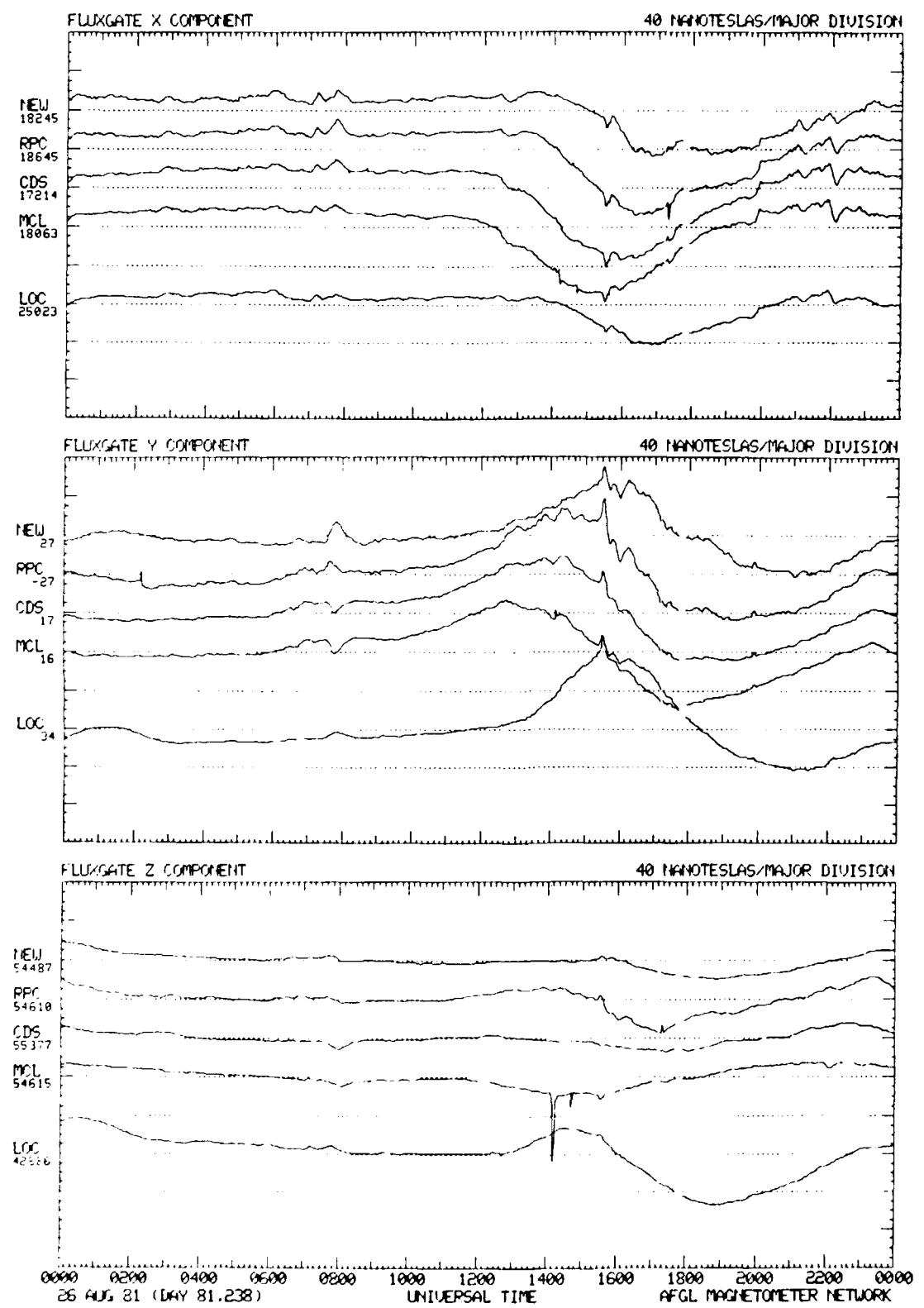


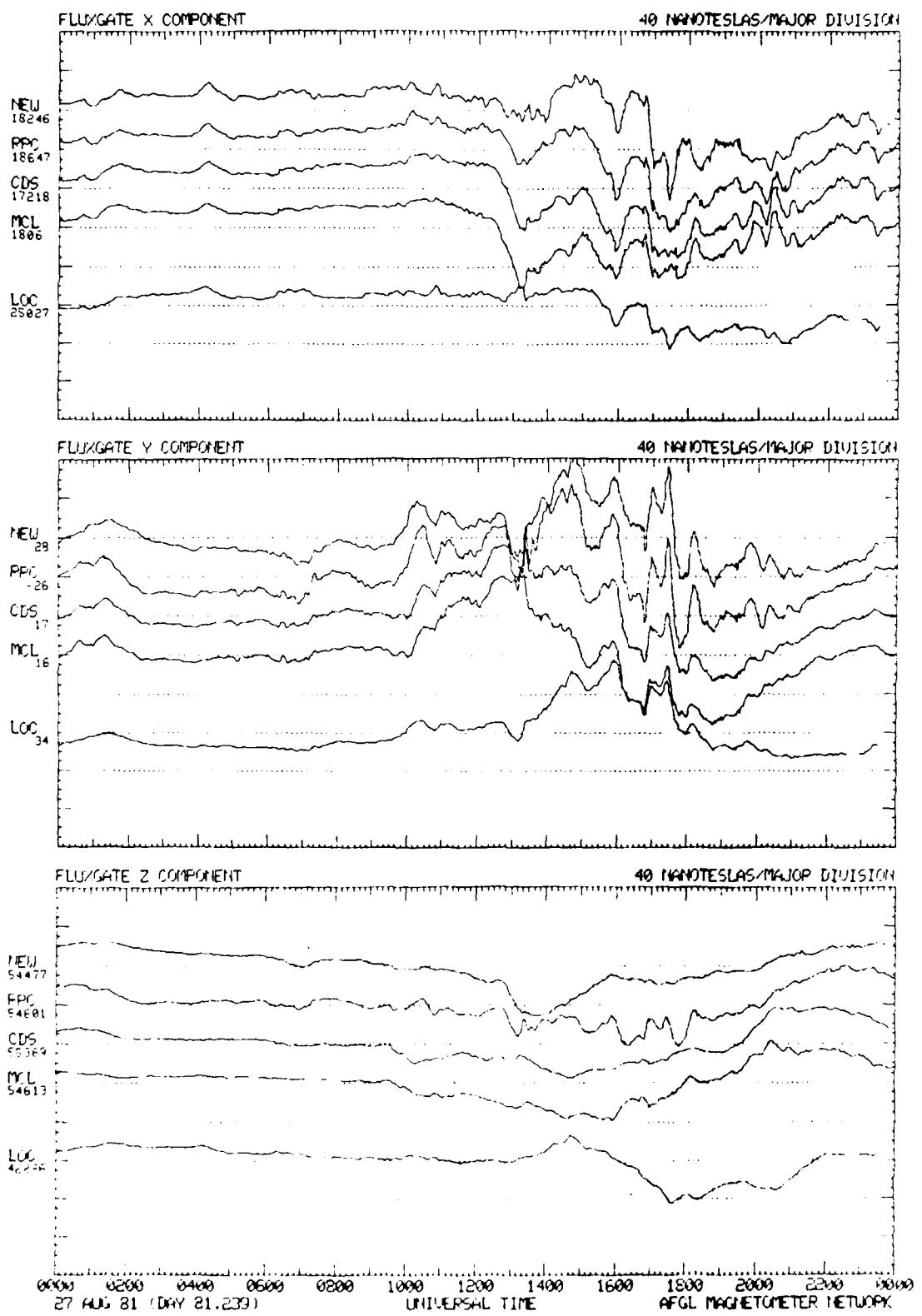


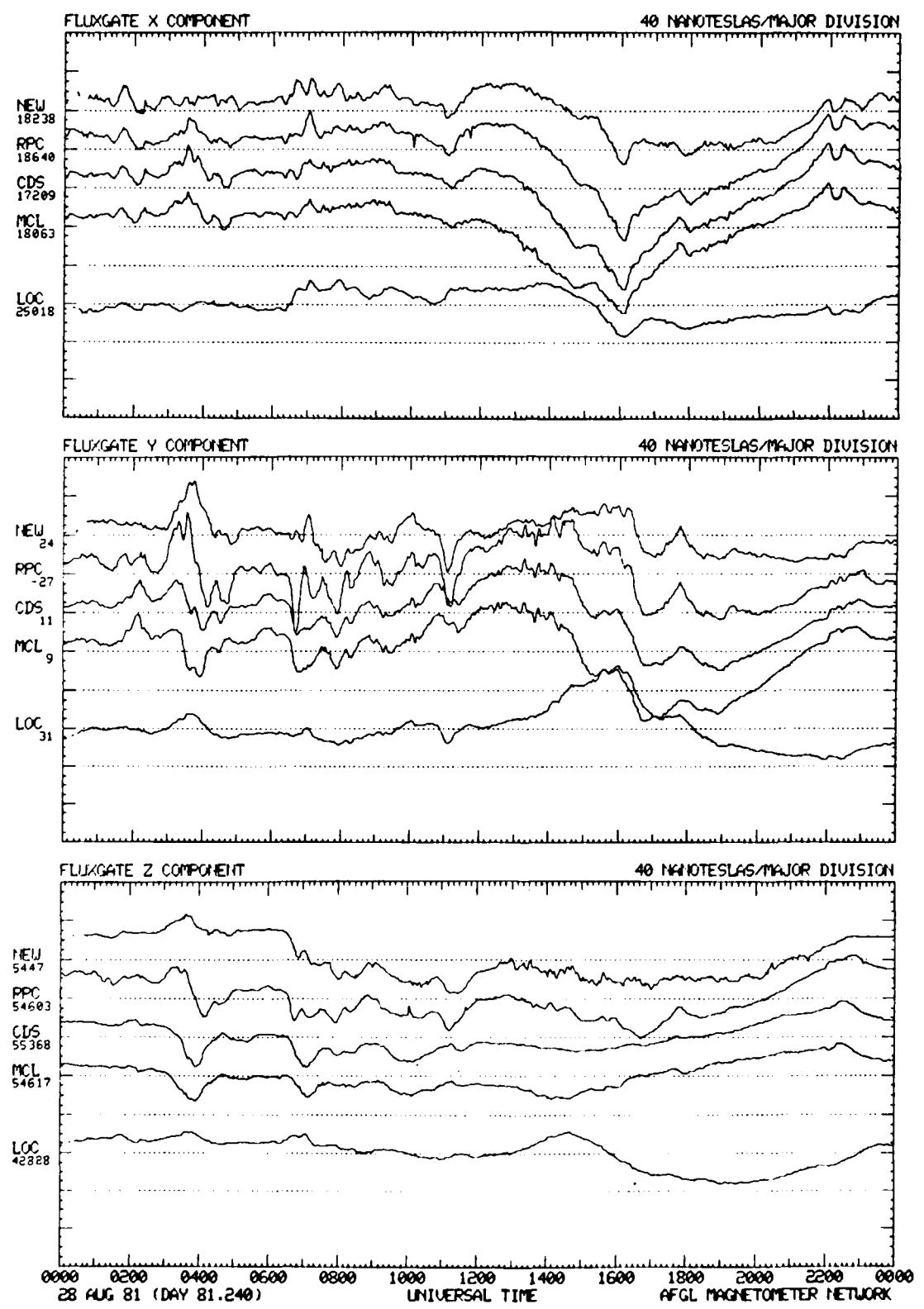


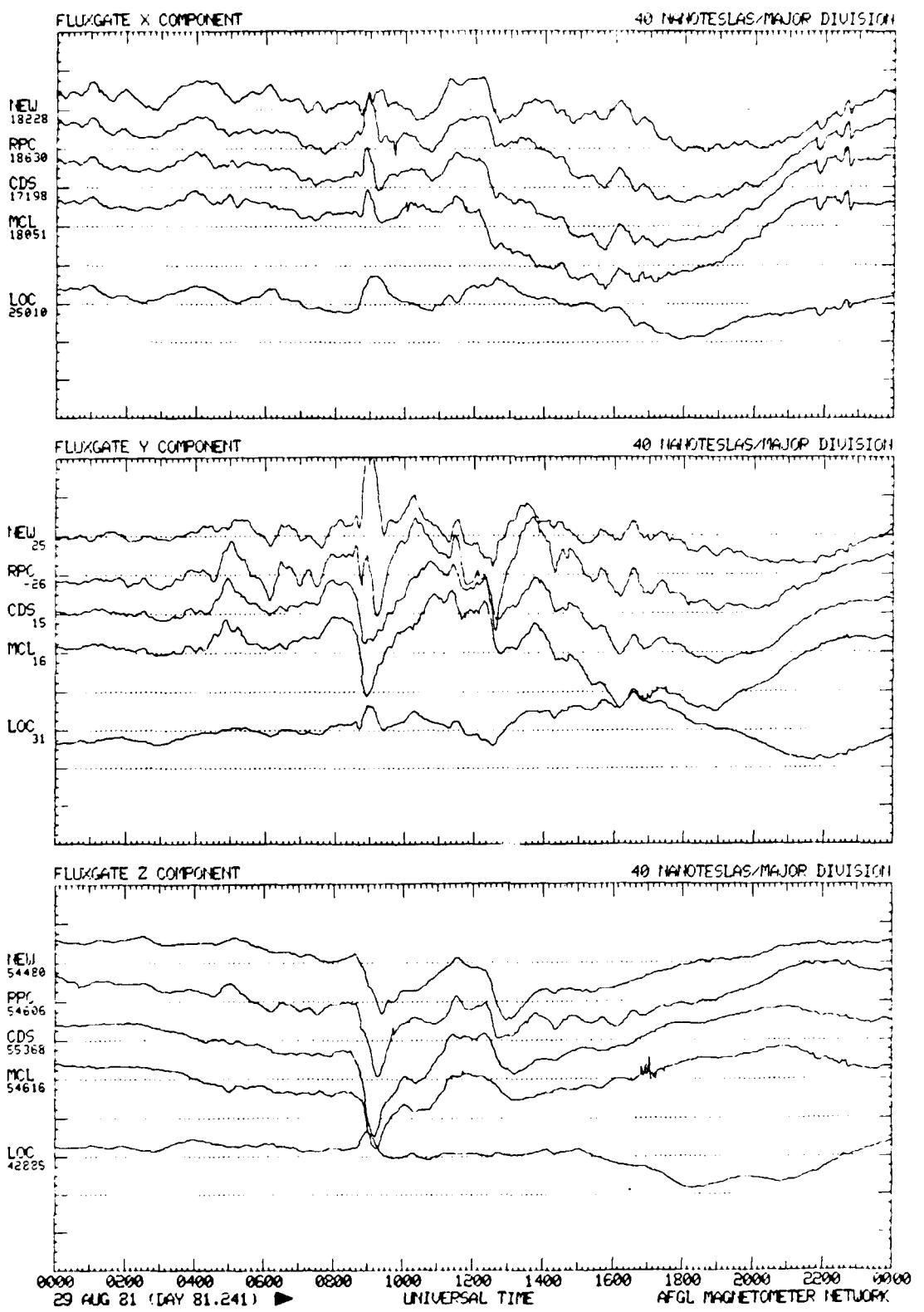


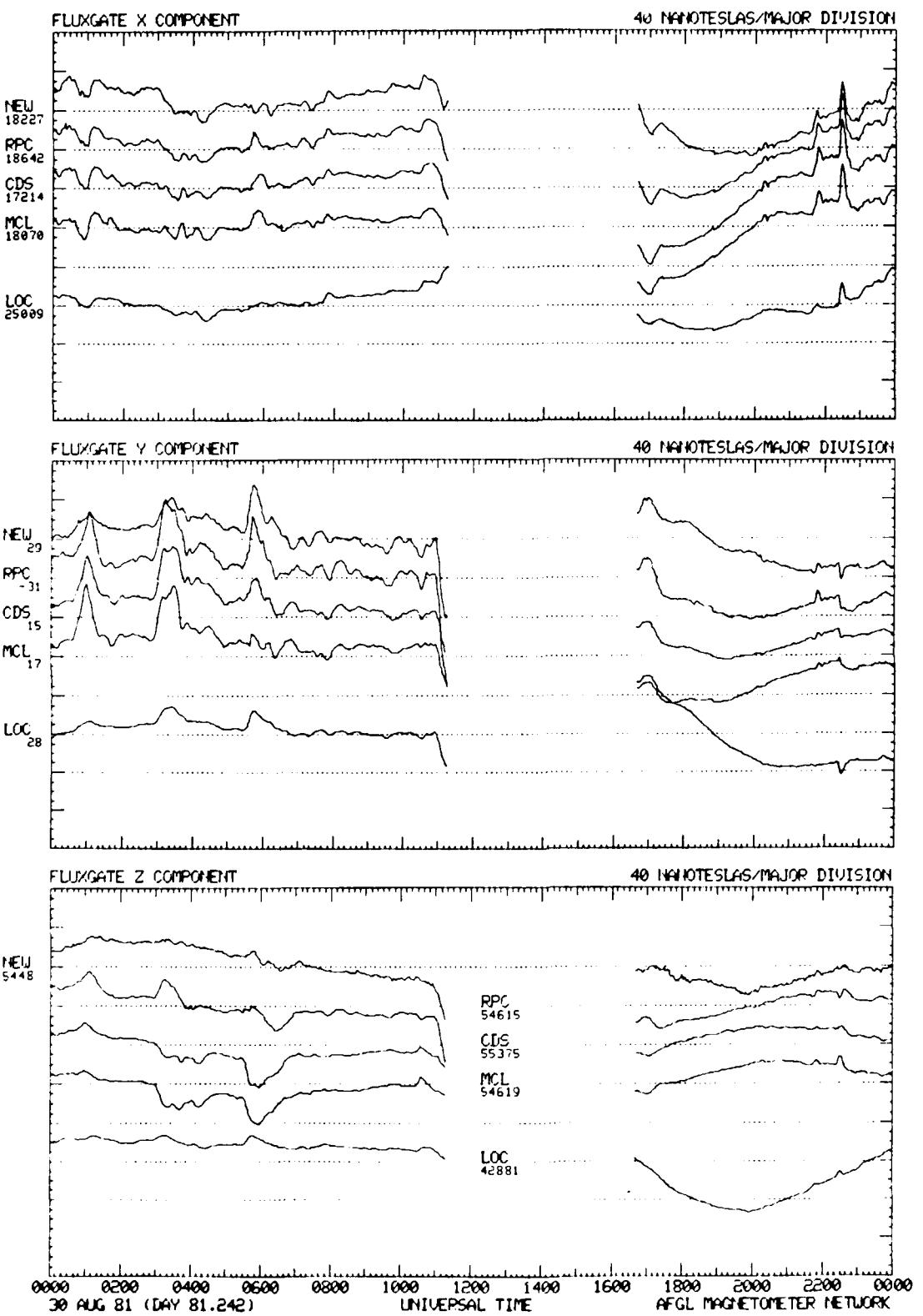


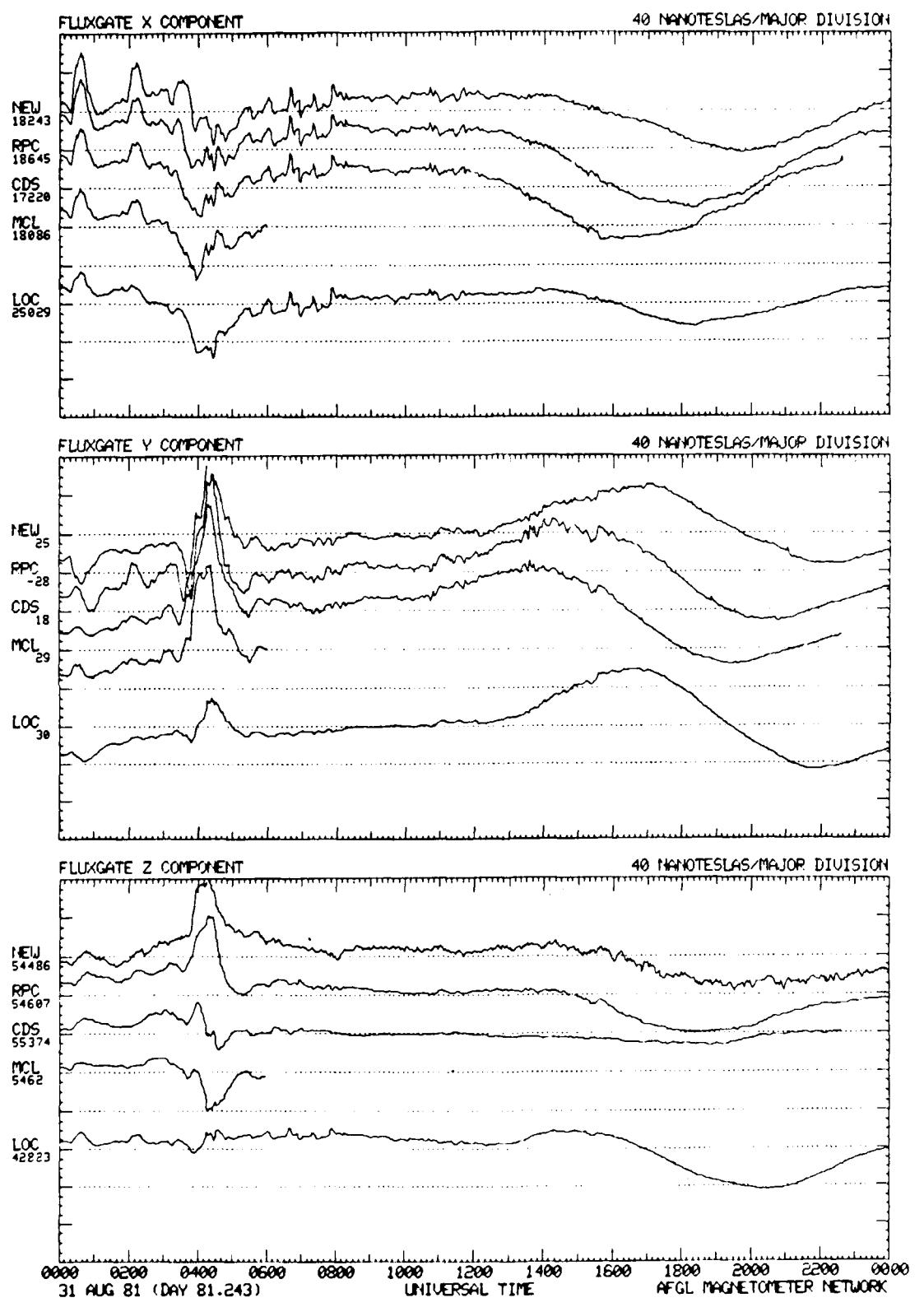












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18246RPC
18646MCL
18077LOC
25039

FLUXGATE Y COMPONENT

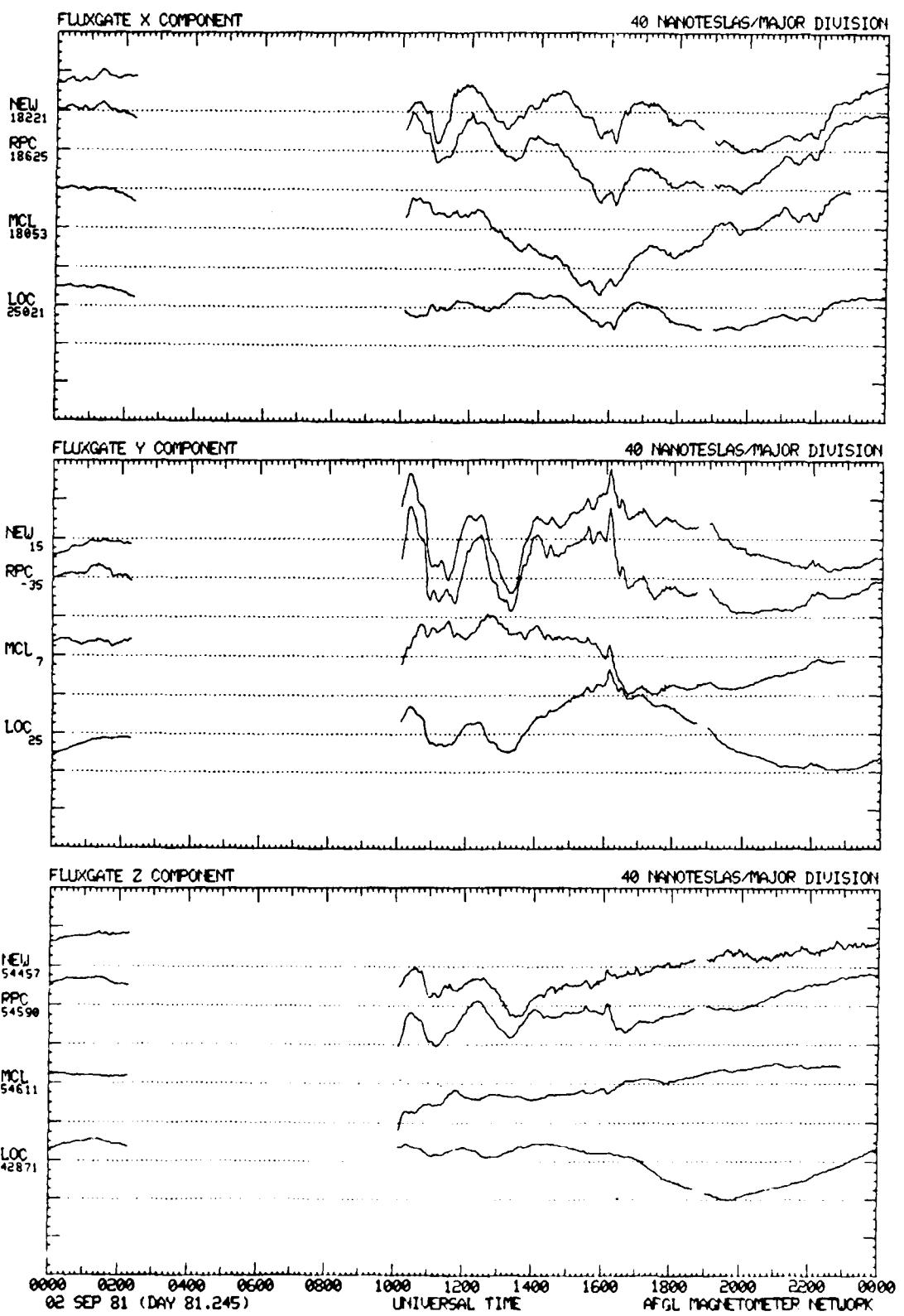
40 NANOTESLAS/MAJOR DIVISION

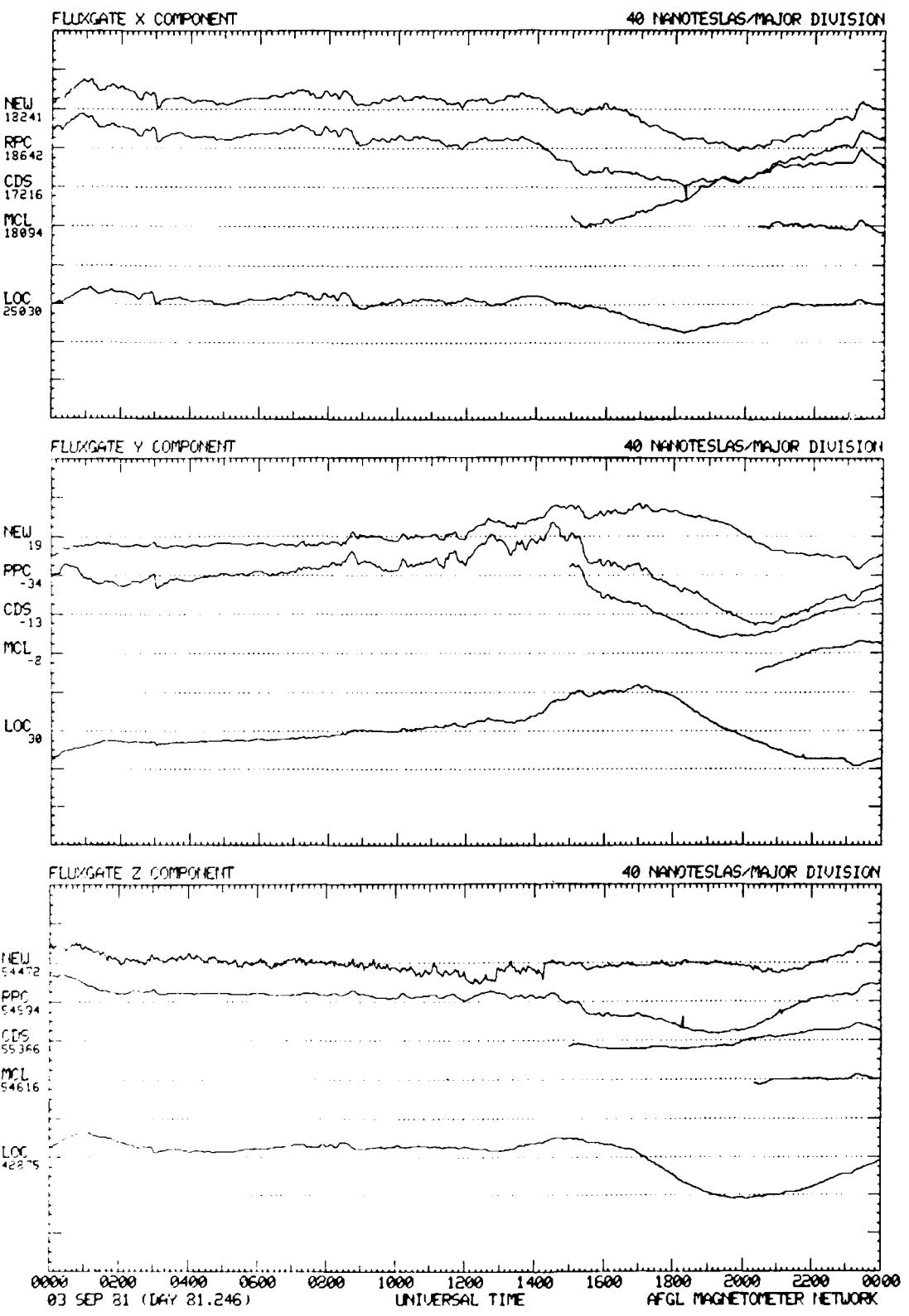
NEW
20RPC
-34MCL
13LOC
24

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54469RPC
54534MCL
54615LOC
428750000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
01 SEP 81 (DAY 81.244) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

10 NANOTESLAS/MAJOR DIVISION

NEU
18237RPC
18637CDS
17223MCL
18875LCC
25830

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
15RPC
13CDS
4MCL
7LCC
23

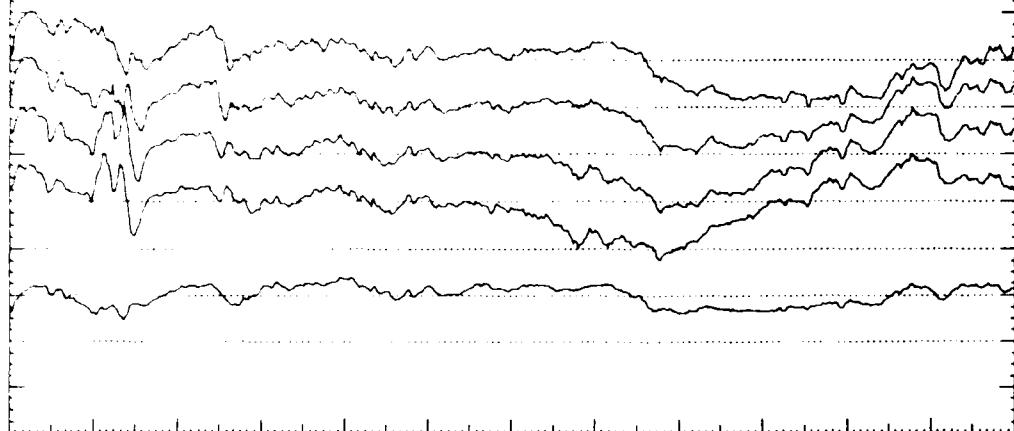
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54478RPC
5451CDS
55362MCL
54612LCC
128710000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 SEP 81 (DAY 81.247) UNIVERSAL TIME AFGL MAGNETOMETER TELEGRAM

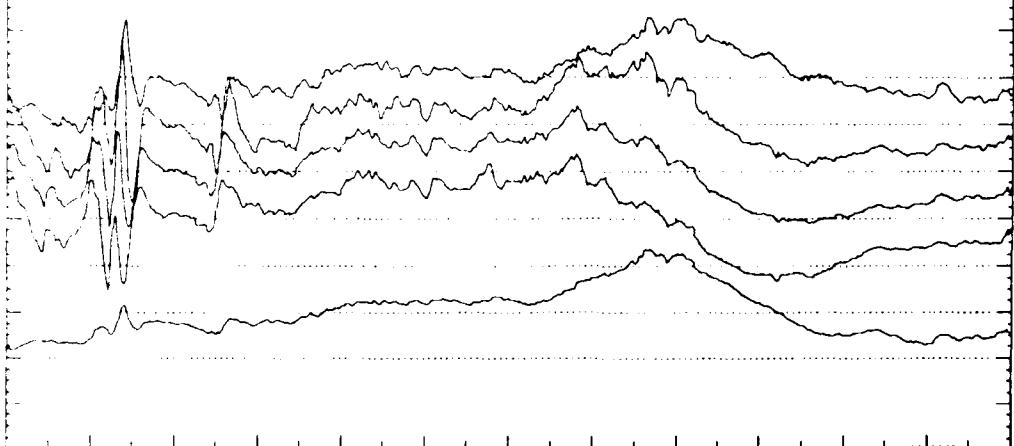
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18230
PPC
15636
CDS
17212
MCL
18865LOC
25013

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

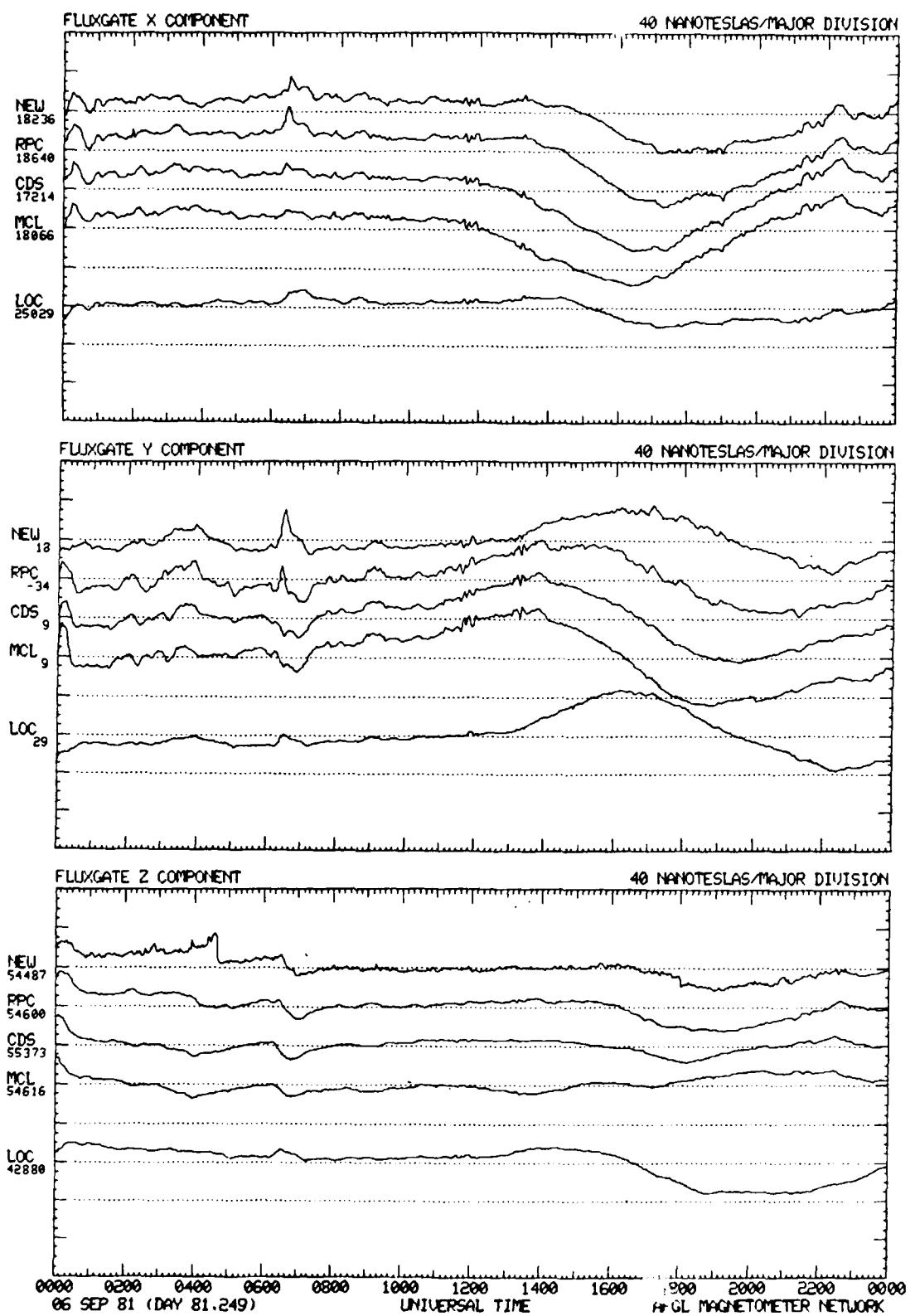
NEW
1
PPC
-33
CDS
12
MCL
14LOC
22

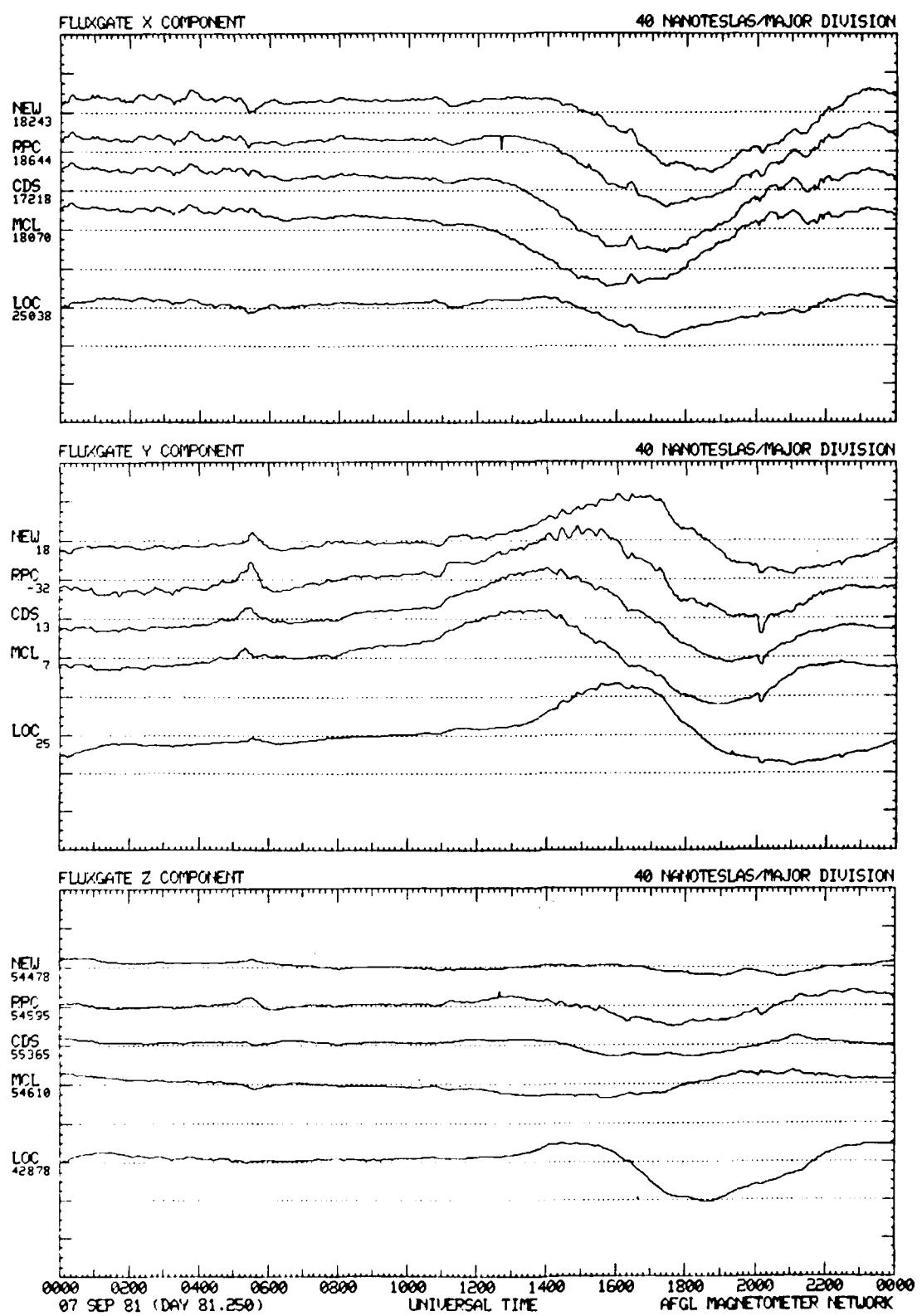
FLUXGATE Z COMPONENT

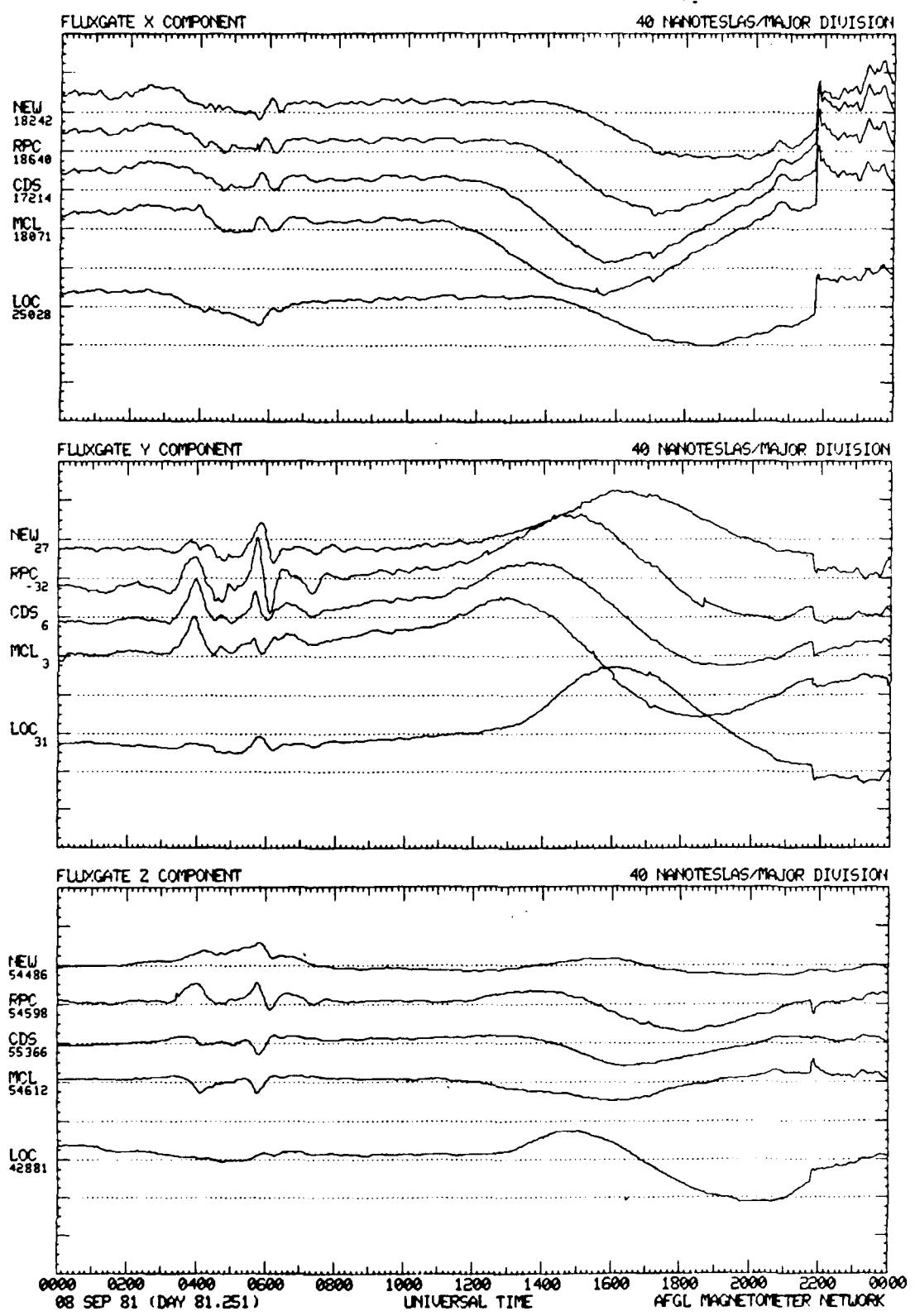
40 NANOTESLAS/MAJOR DIVISION

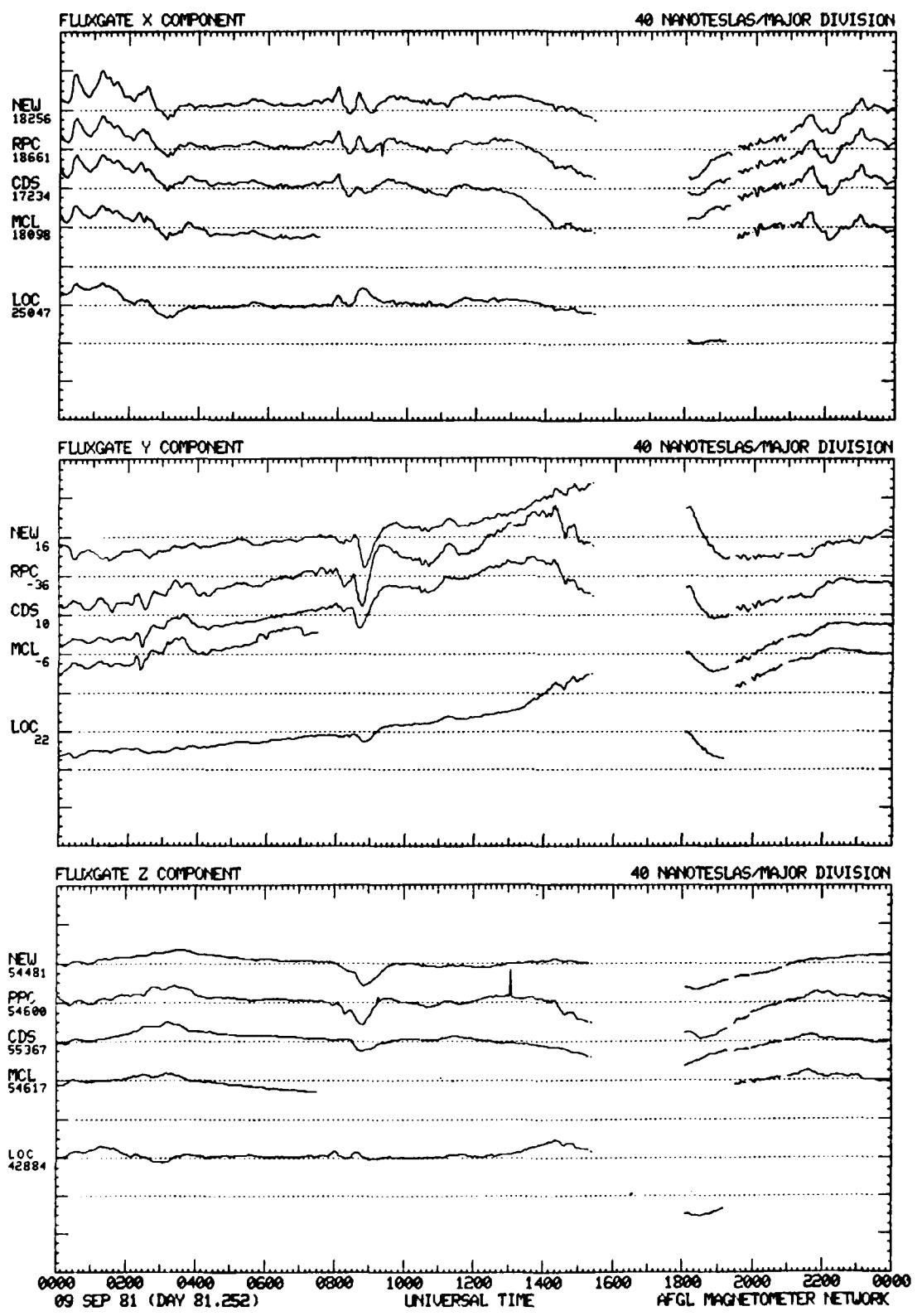
NEW
54.01
PPC
54.04
CDS
54.01
MCL
54.23LOC
54.04

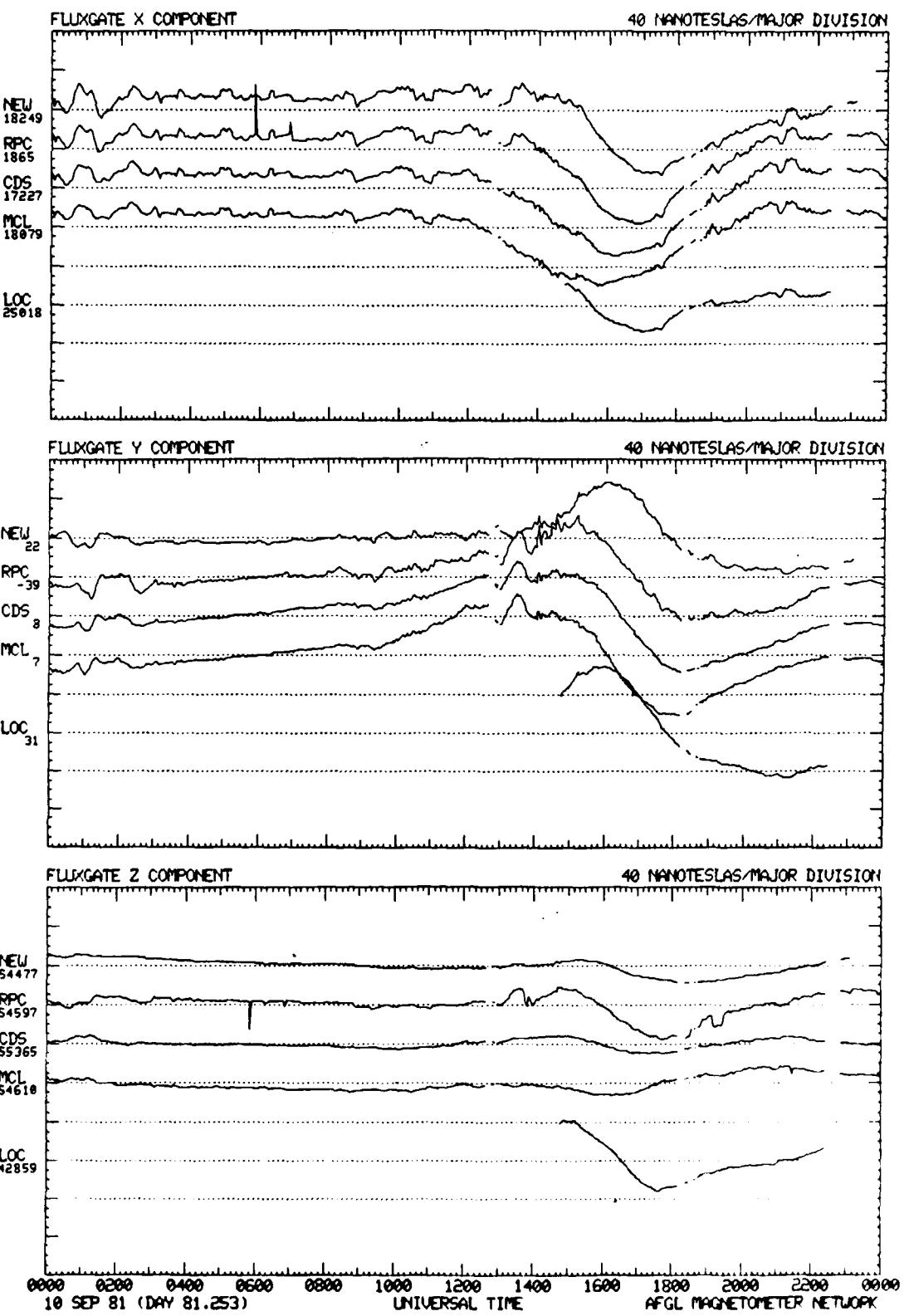
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 SEP 21 (DAY 21.248) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

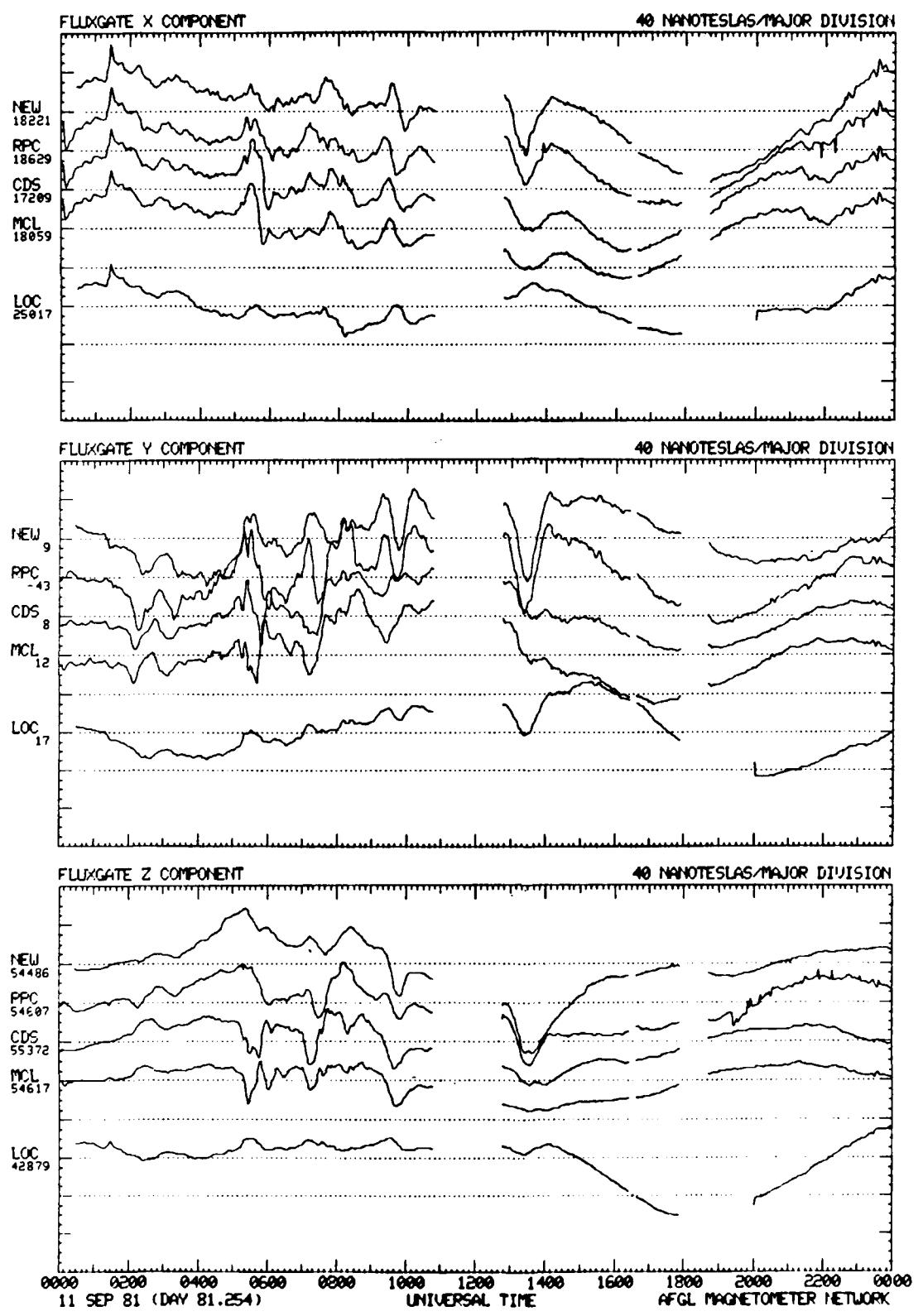


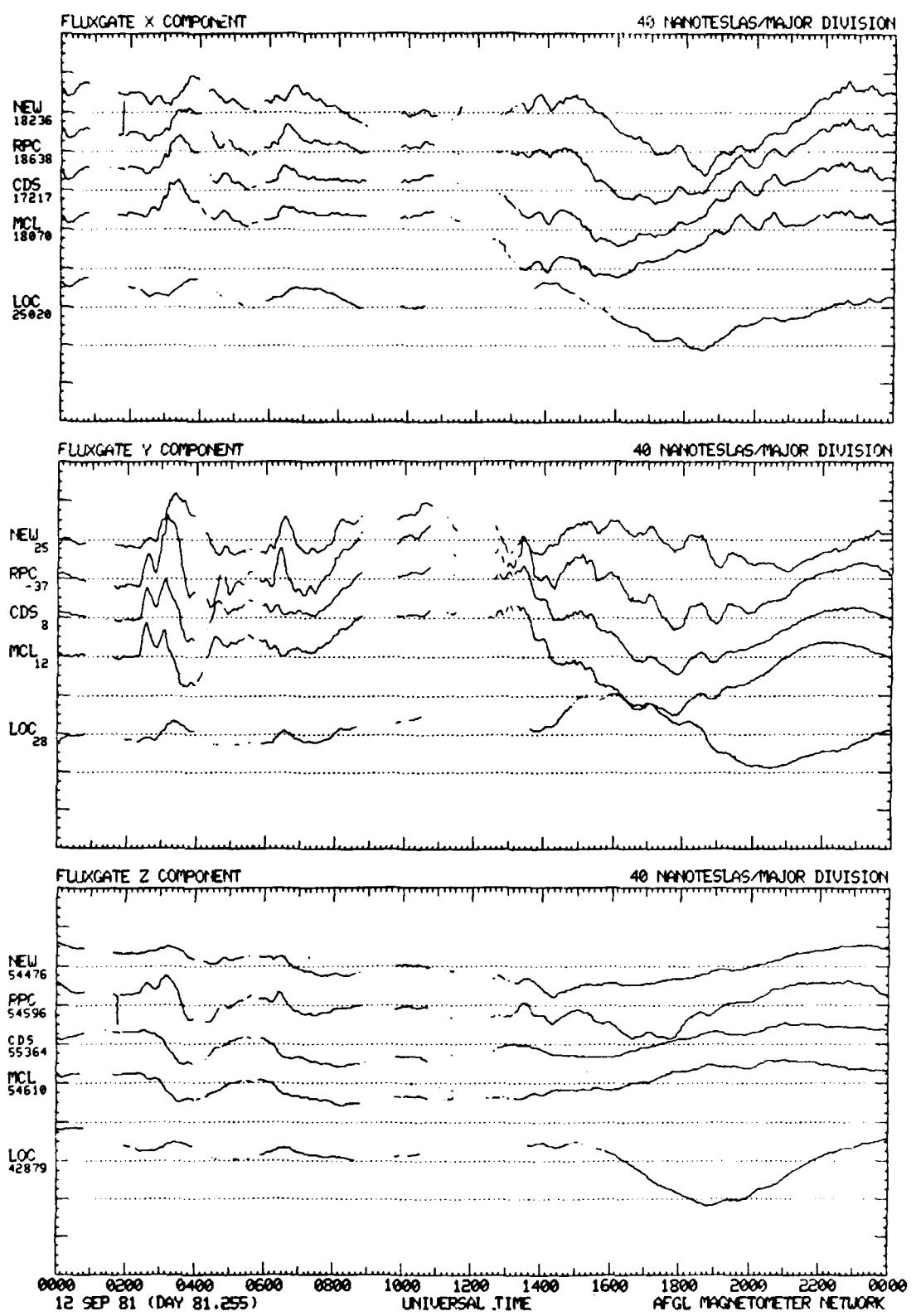












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18231RPC
18636CDS
17212MCL
18065LOC
25014

FLUXGATE Y COMPONENT

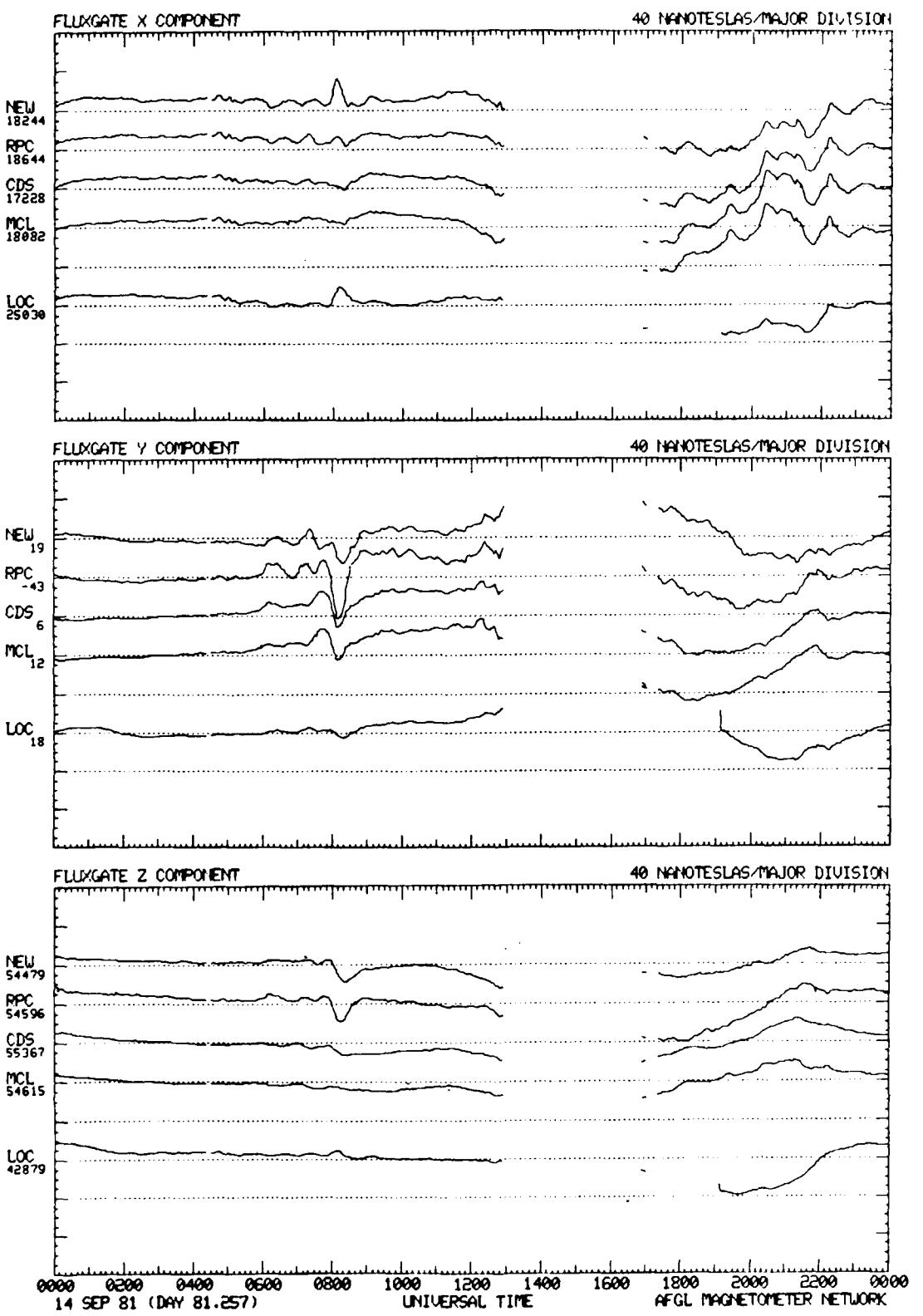
40 NANOTESLAS/MAJOR DIVISION

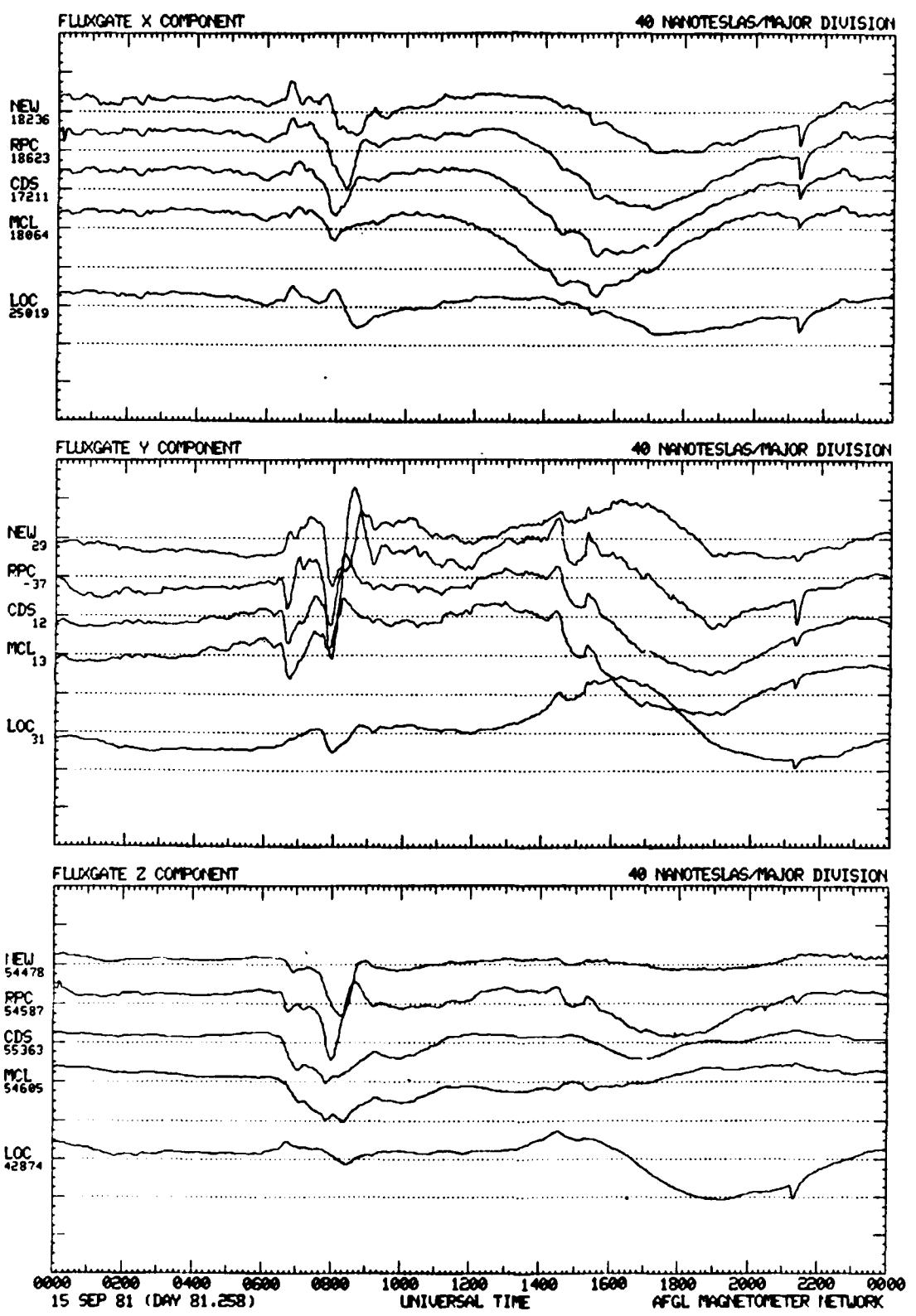
NEW
32PPC
-32CDS
11MCL
15LOC
32

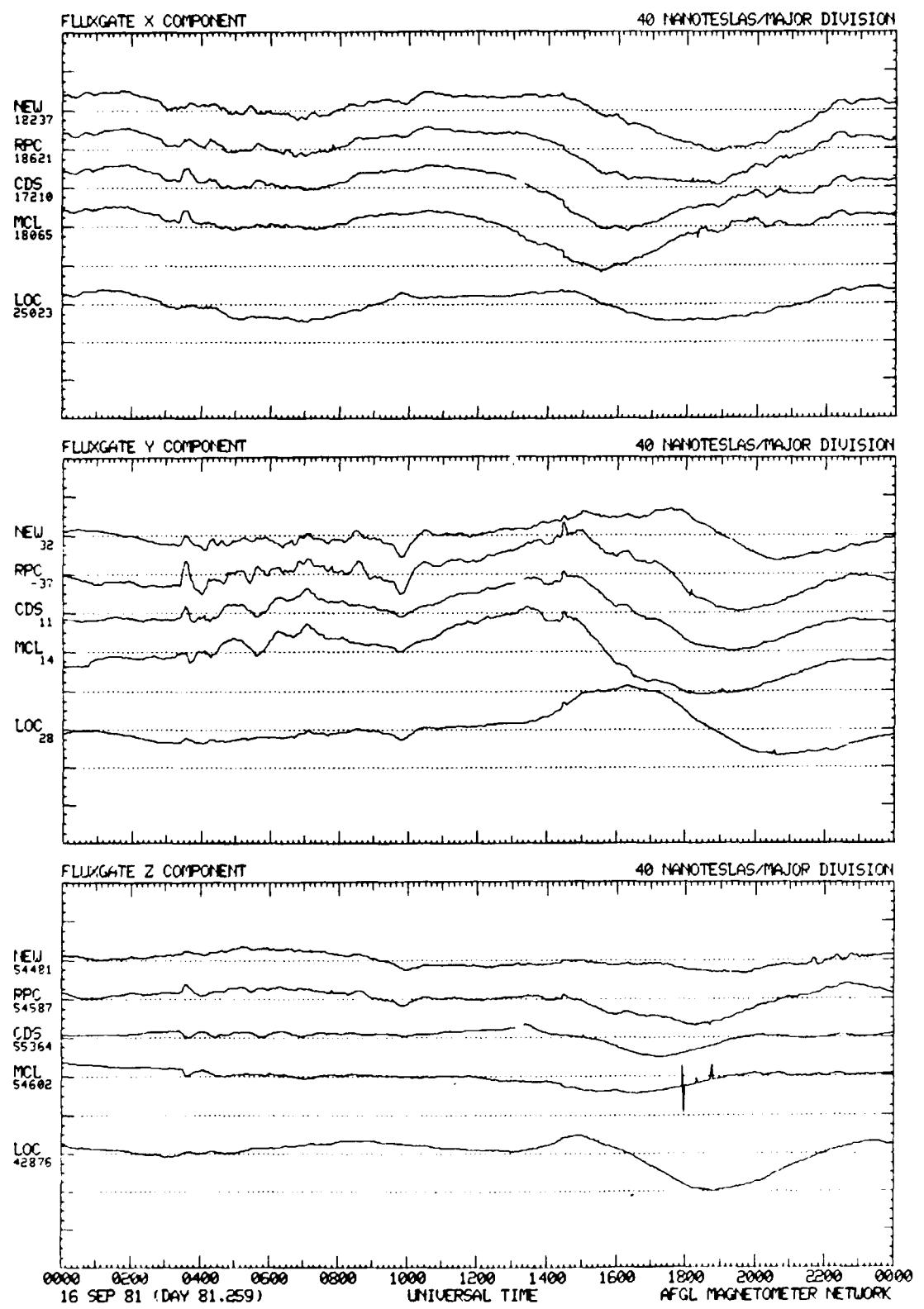
FLUXGATE Z COMPONENT

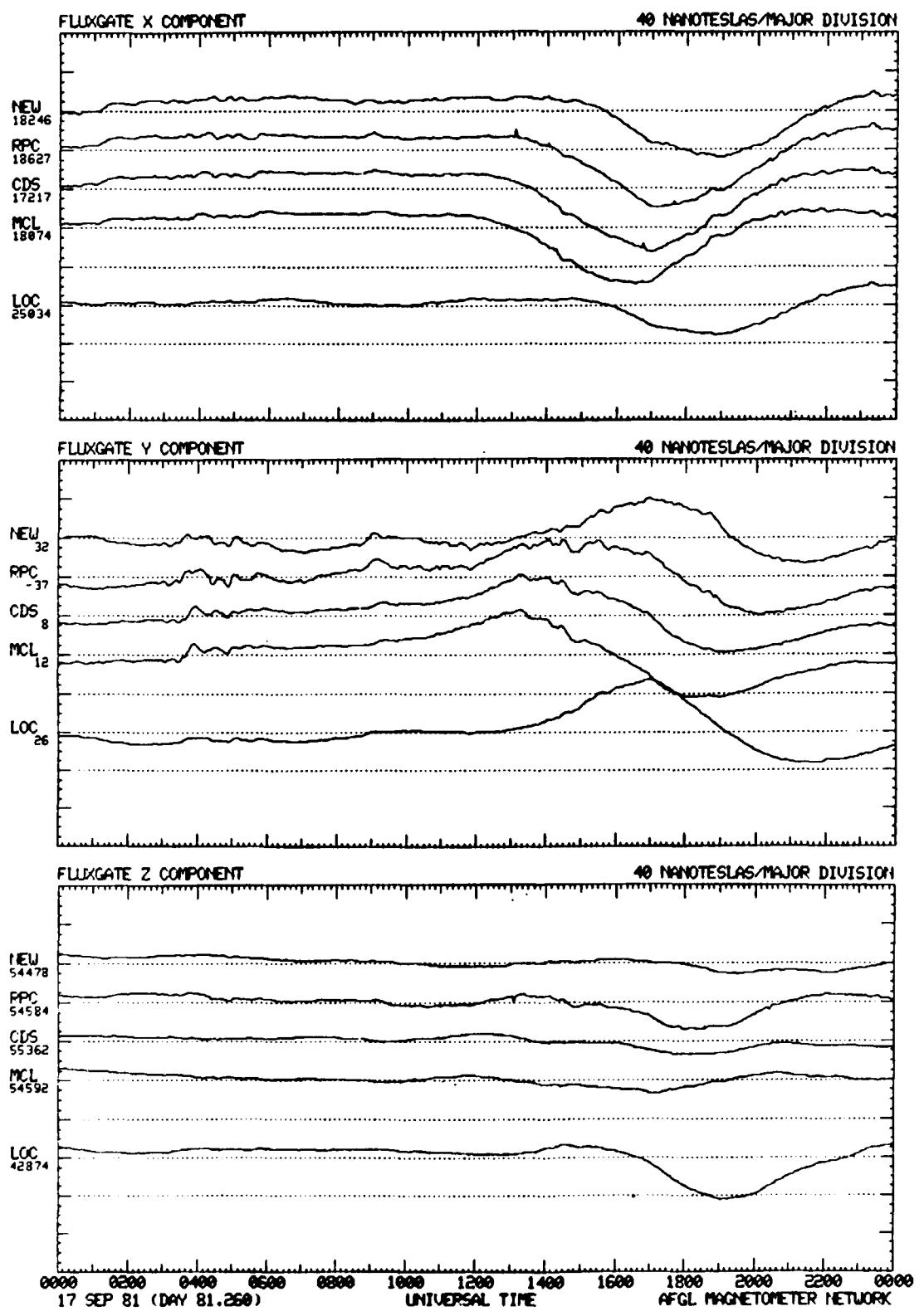
40 NANOTESLAS/MAJOR DIVISION

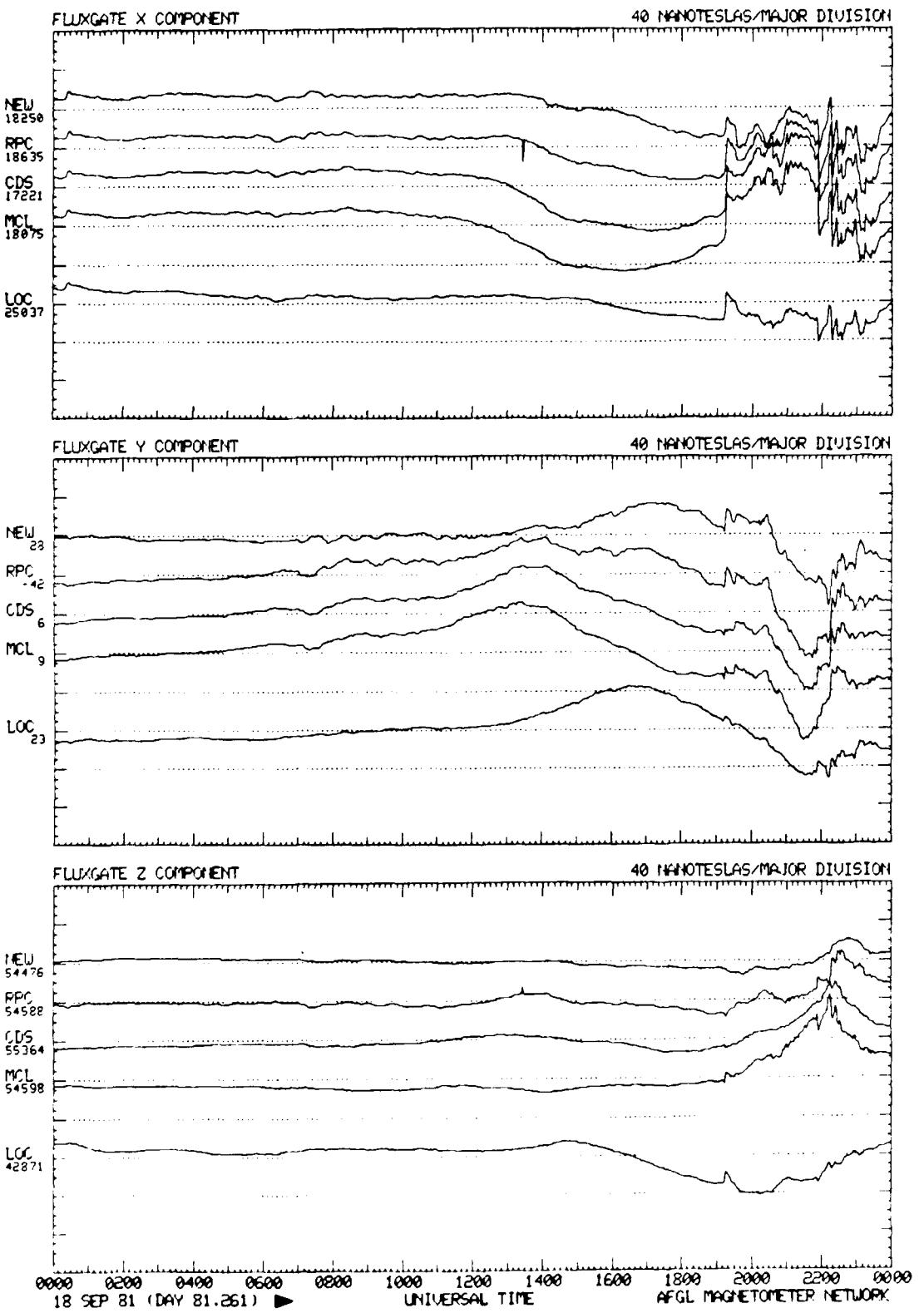
NEW
54476PPC
54536CDS
55362MCL
54687LOC
428790000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 SEP 81 (DAY 81.256) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

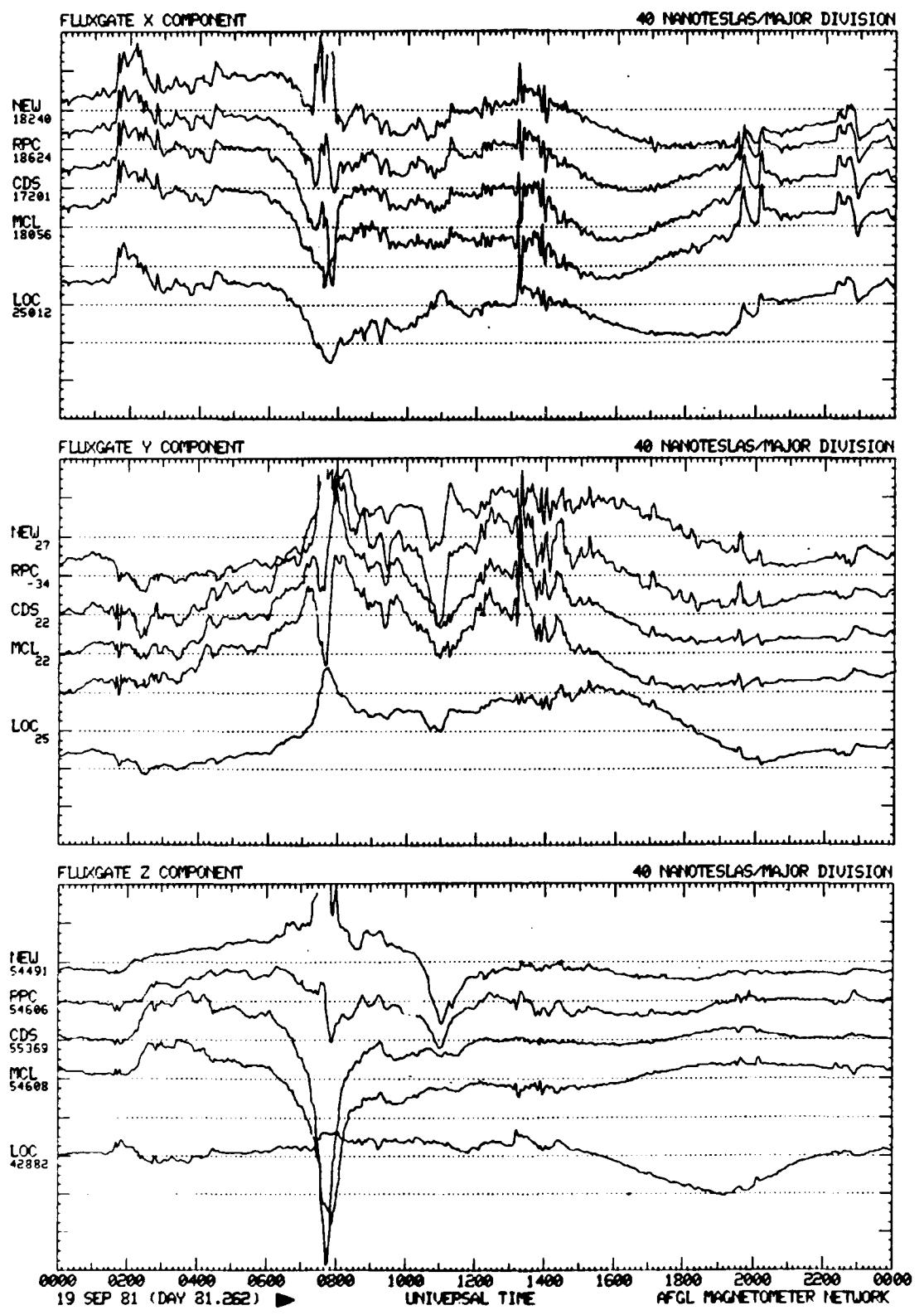


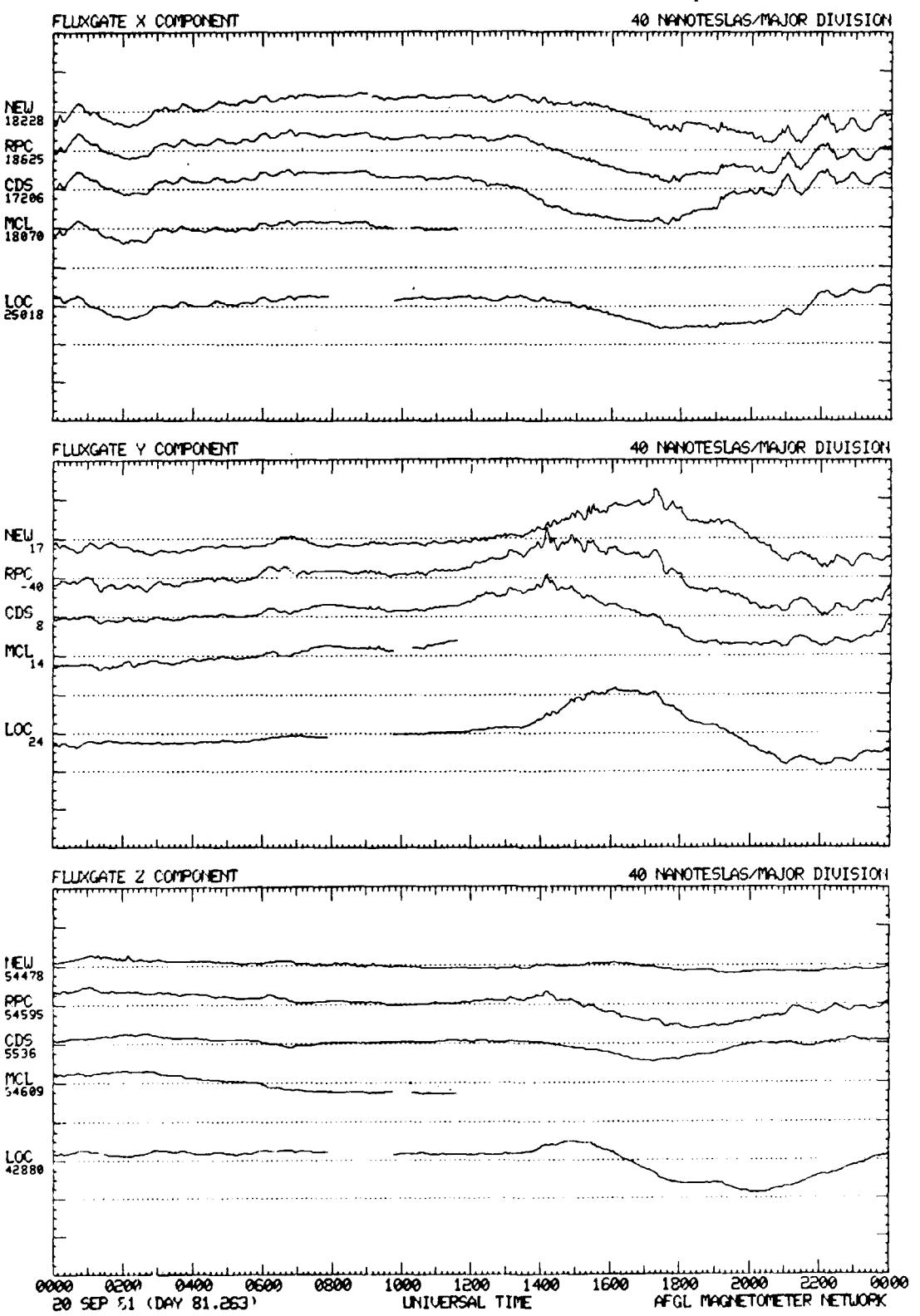


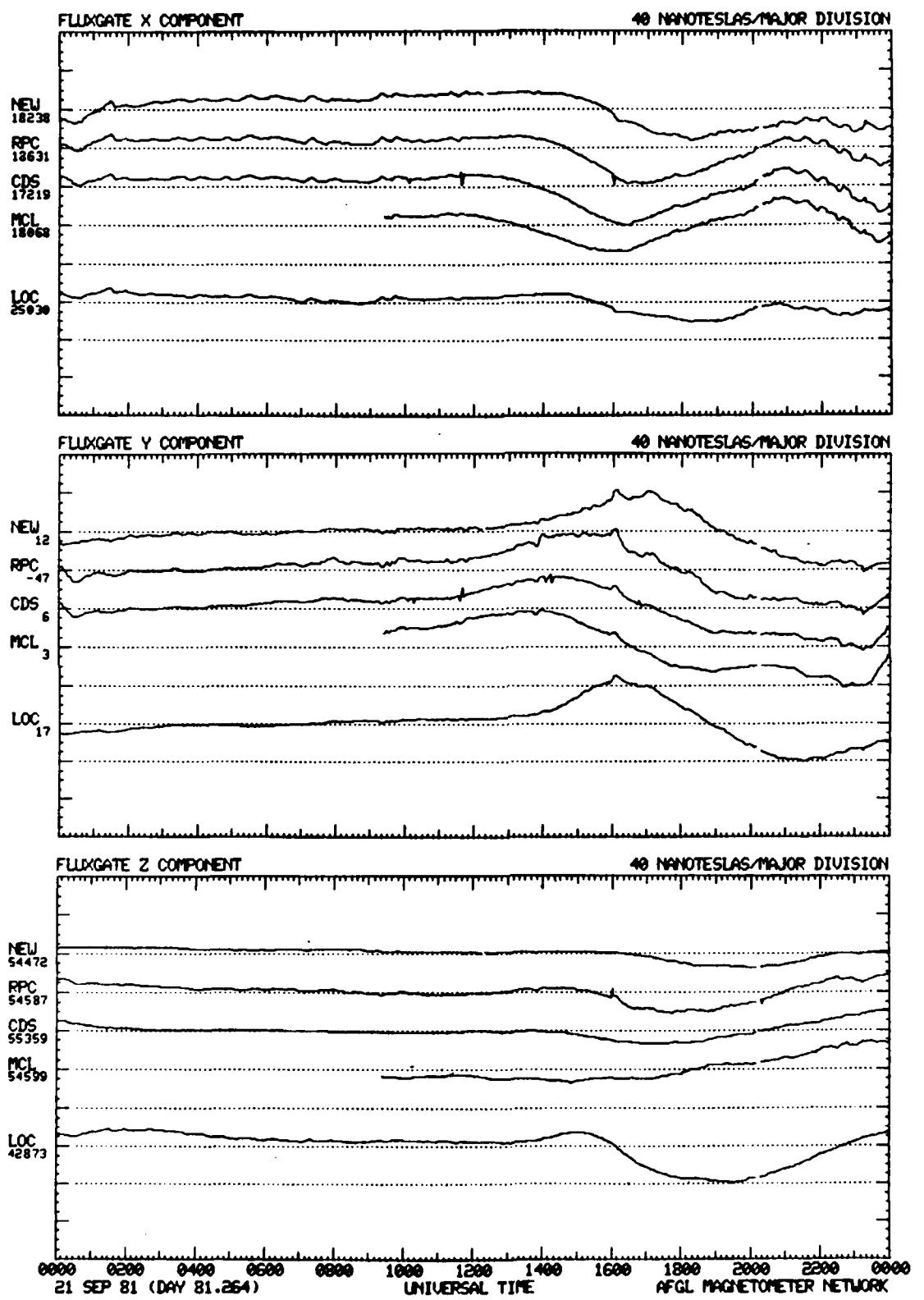












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
1823
RPC
18623
CDS
17207
MCL
18066LOC
25027

FLUXGATE Y COMPONENT

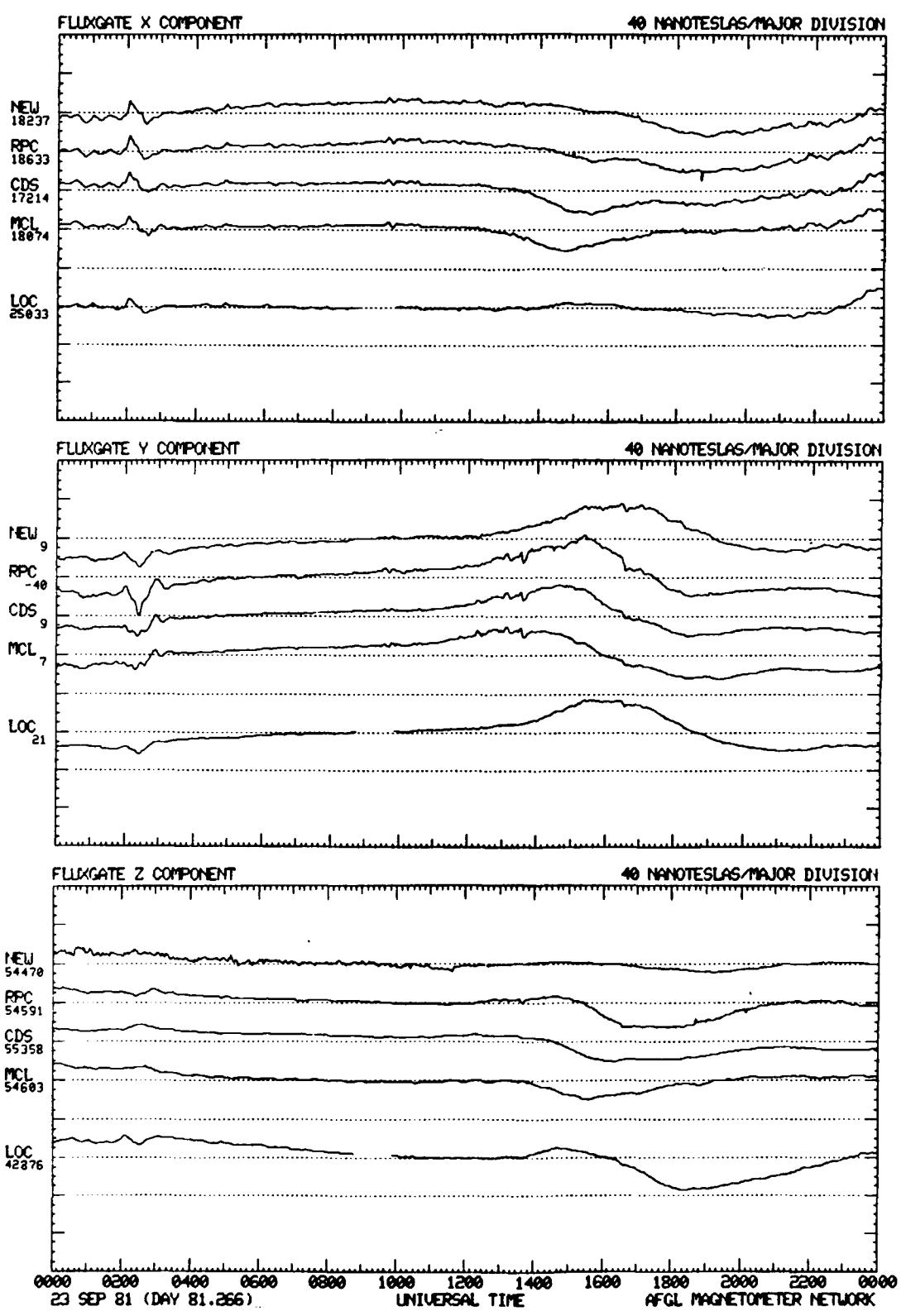
40 NANOTESLAS/MAJOR DIVISION

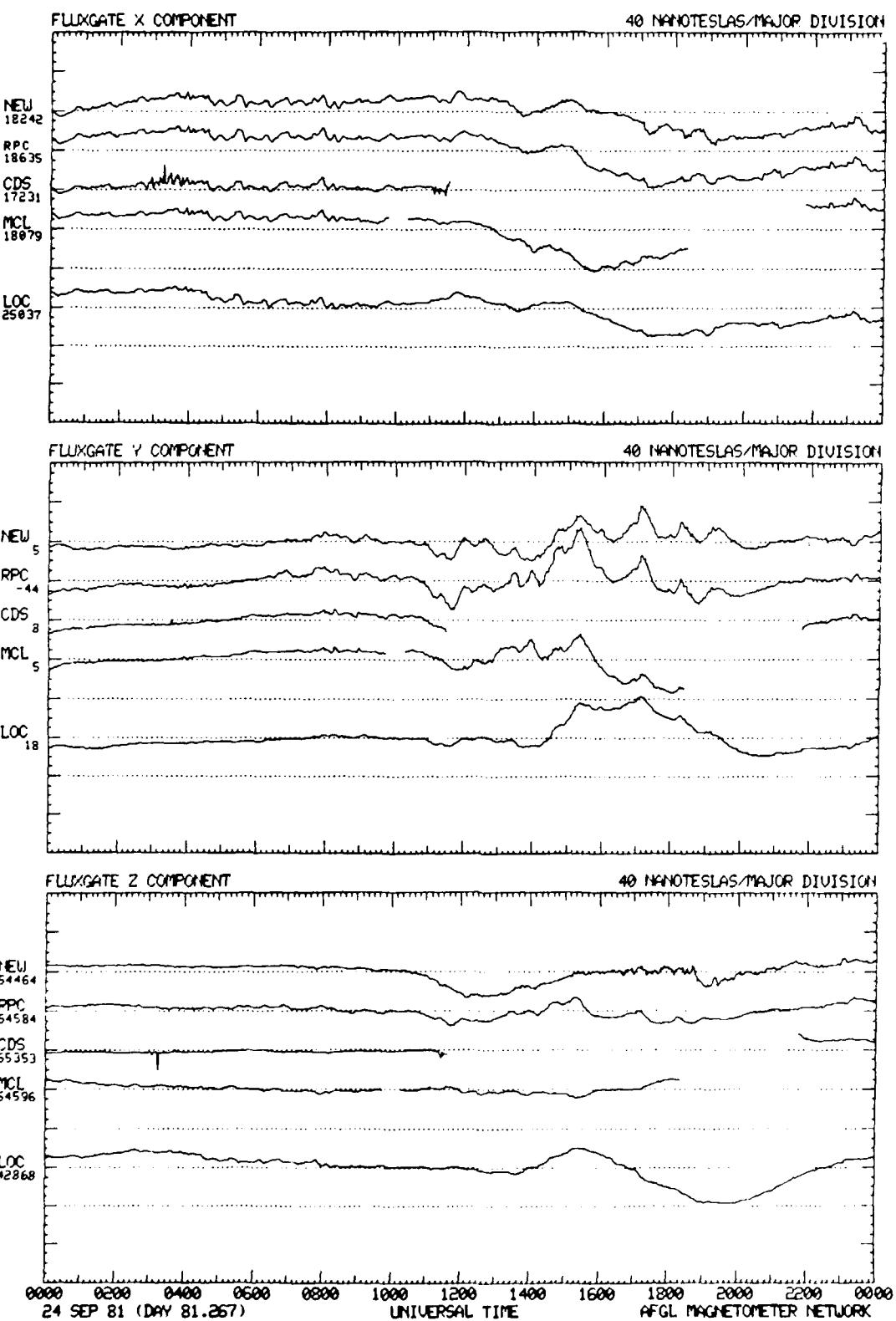
NEU
8
RPC
-44
CDS
10
MCL
9LOC
18

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54476
PPC
54593
CDS
55361
MCL
54608LOC
429880000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 SEP 81 (DAY 81.265) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18229
RPC
18624
CDS
17210
MCL
18069LOC
25023

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
10
RPC
-41
CDS
9
MCL
4LOC
23

FLUXGATE Z COMPONENT

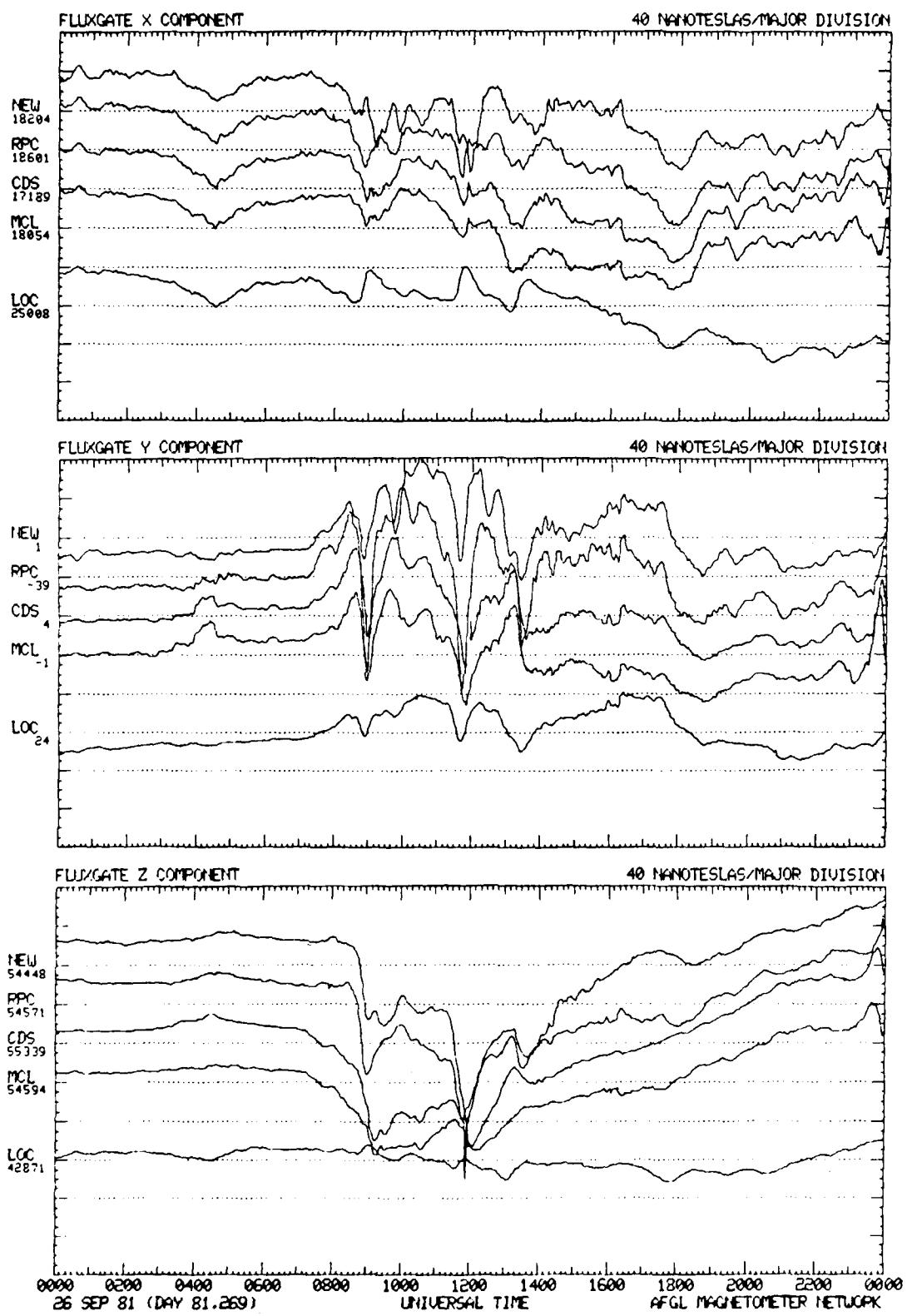
40 NANOTESLAS/MAJOR DIVISION

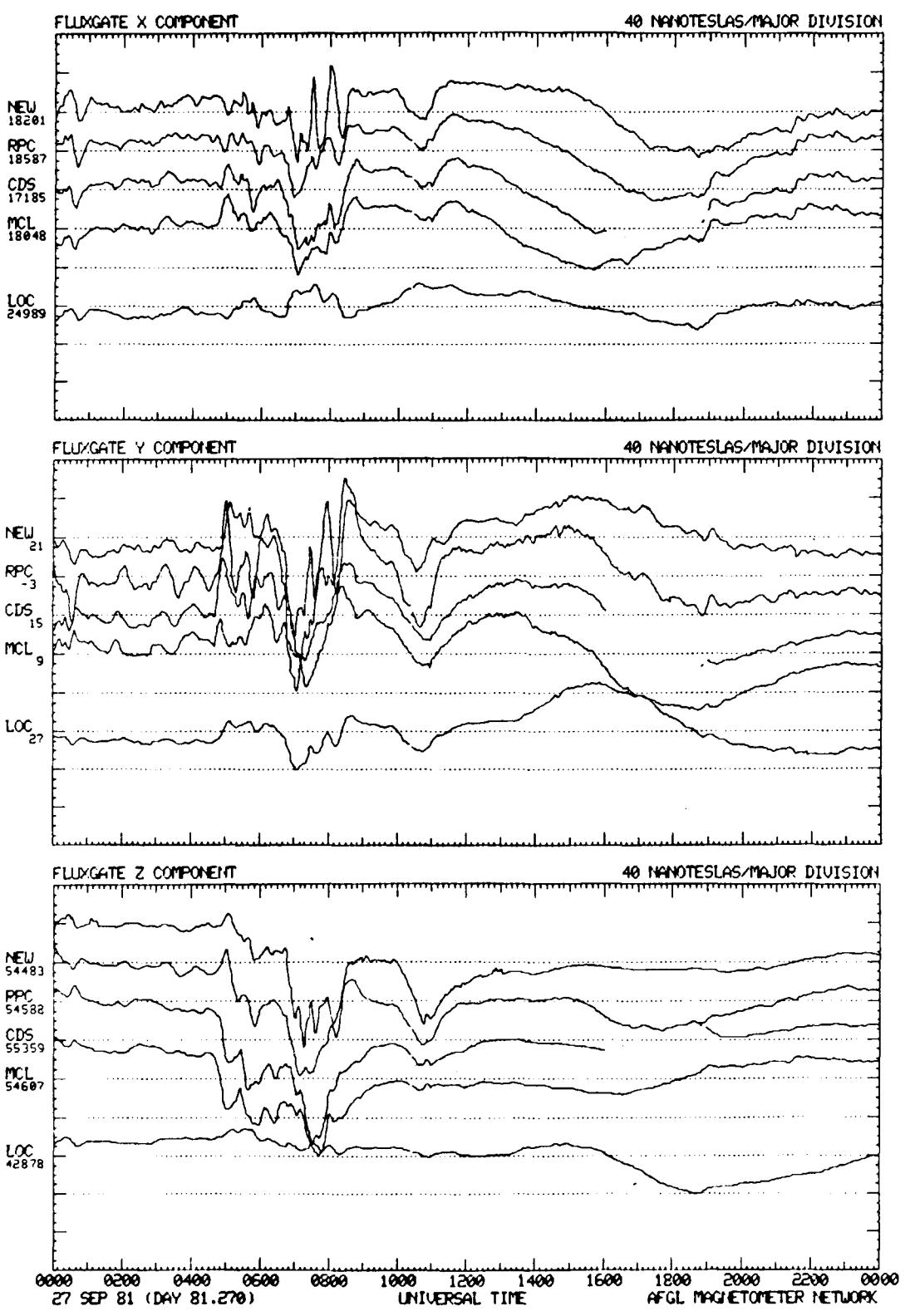
NEU
54465
RPC
54584
CDS
55351
MCL
54603LOC
42268

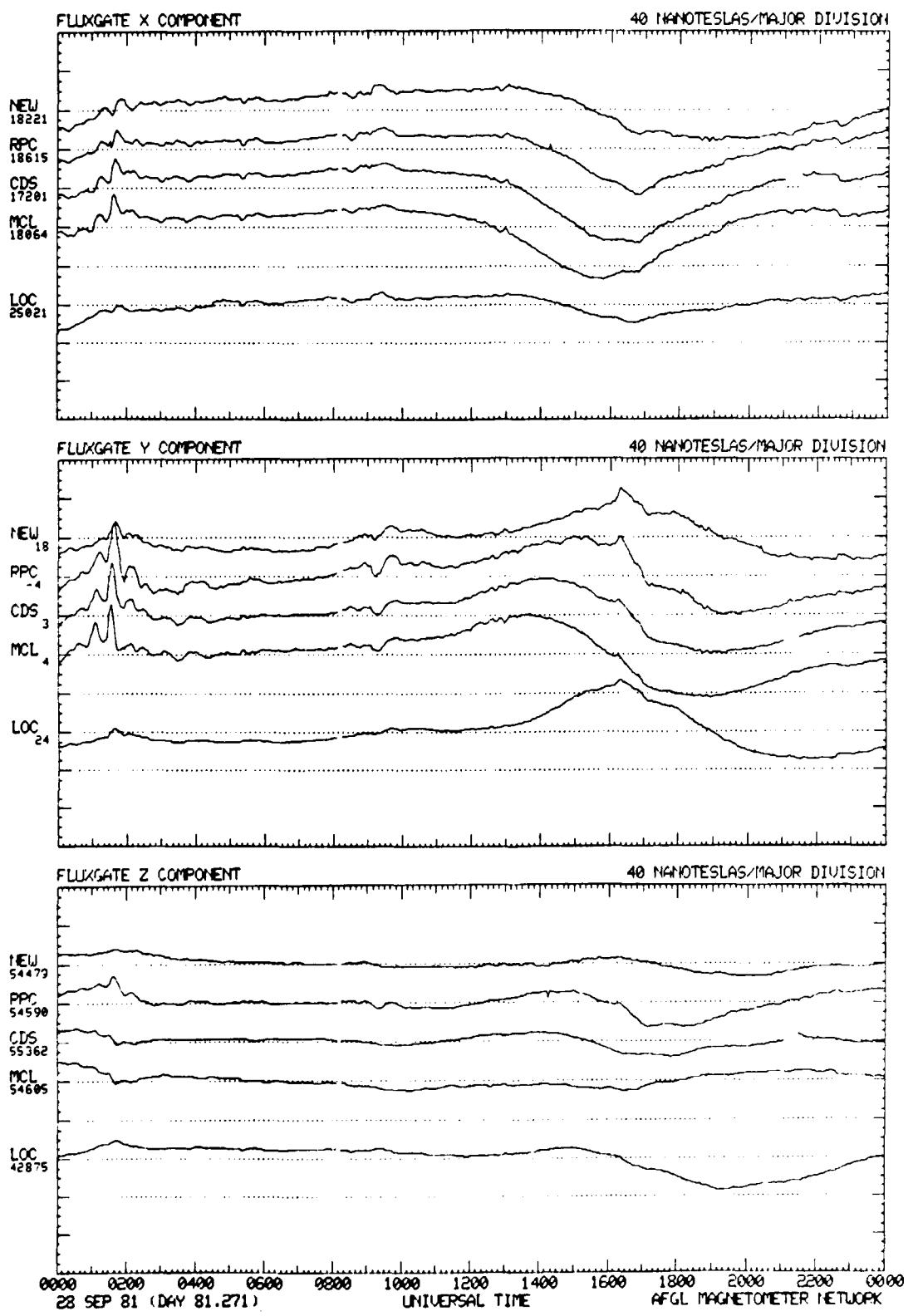
25 SEP 81 (DAY 81.268)

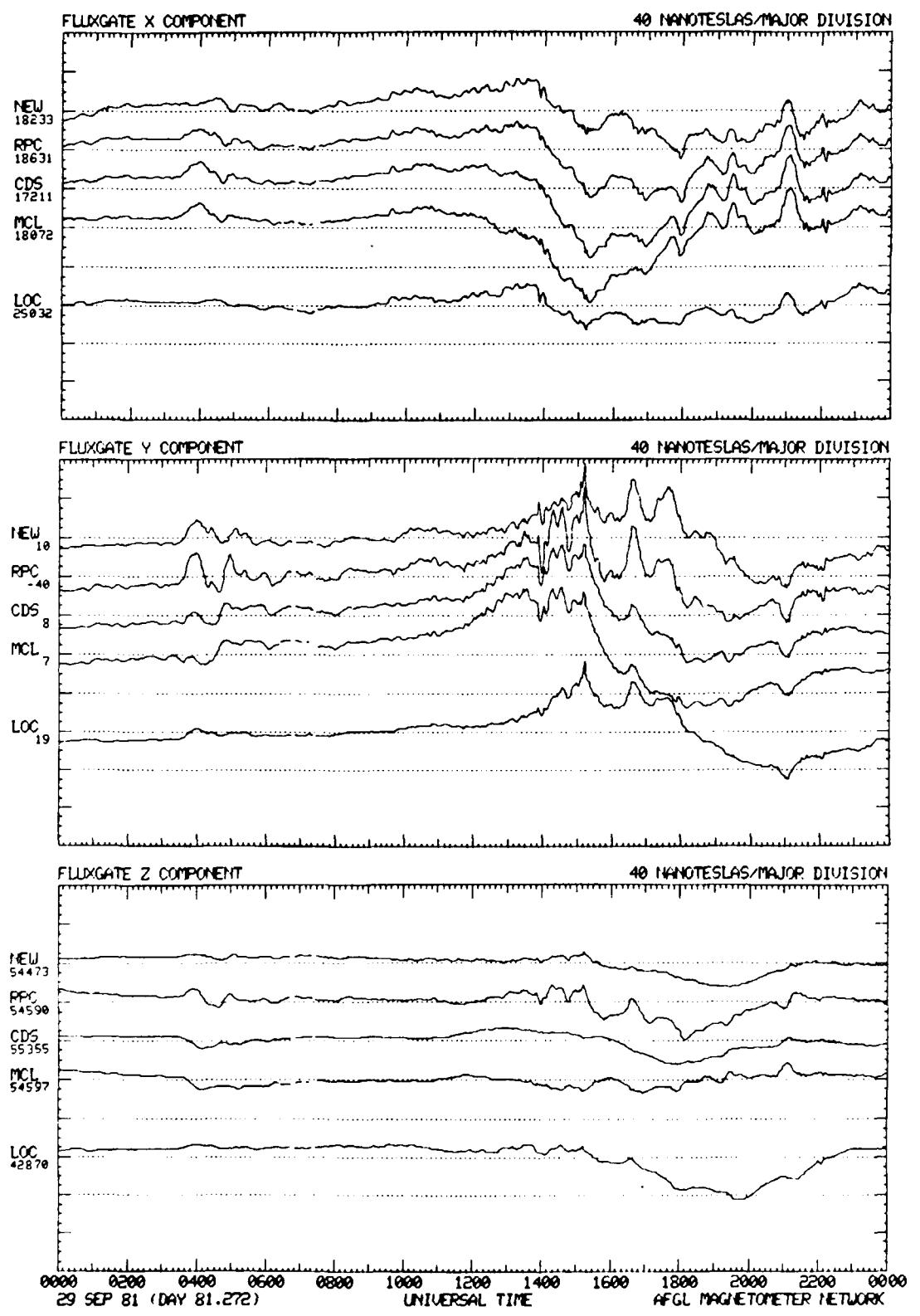
UNIVERSAL TIME

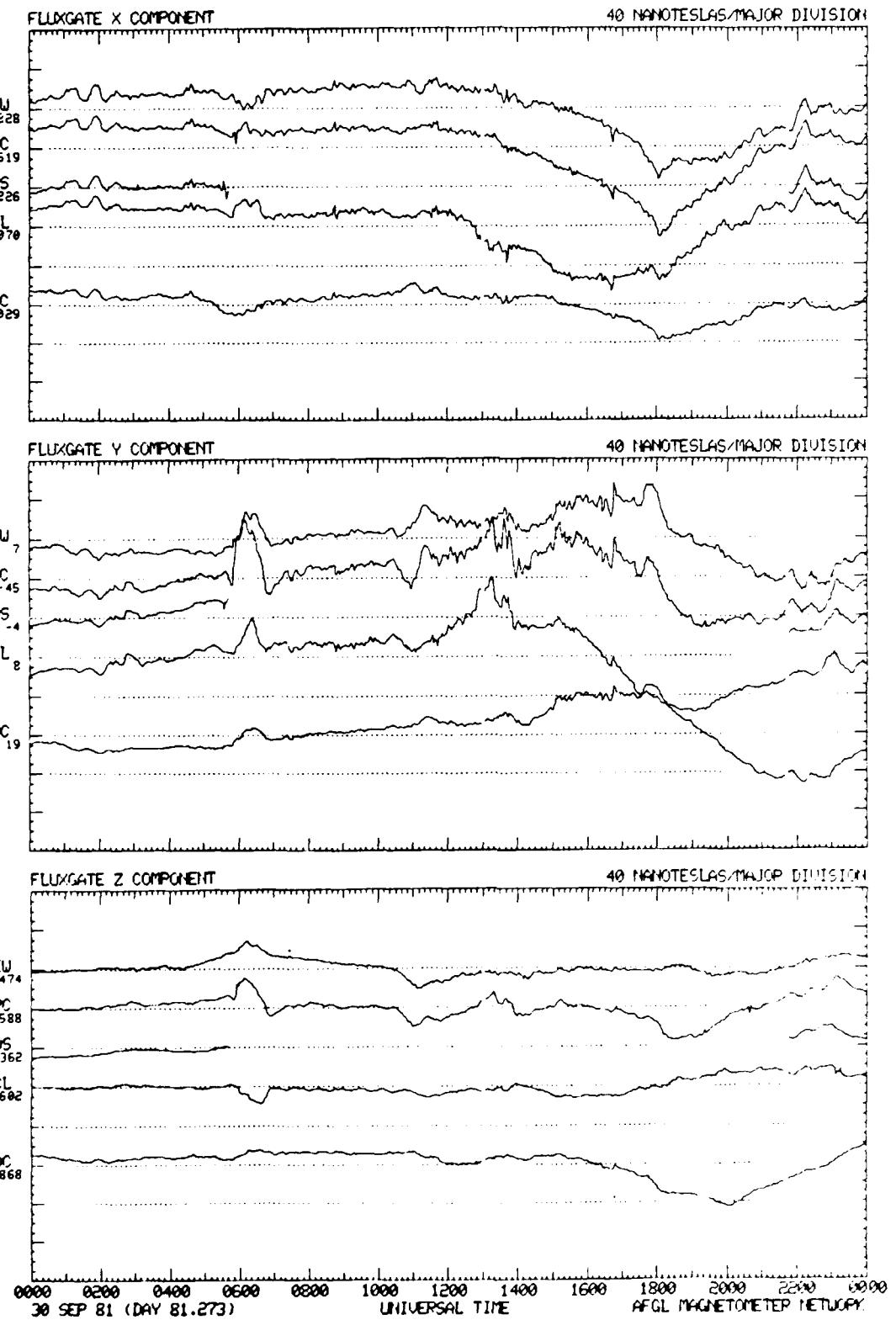
AFGL MAGNETOMETER NETWORK

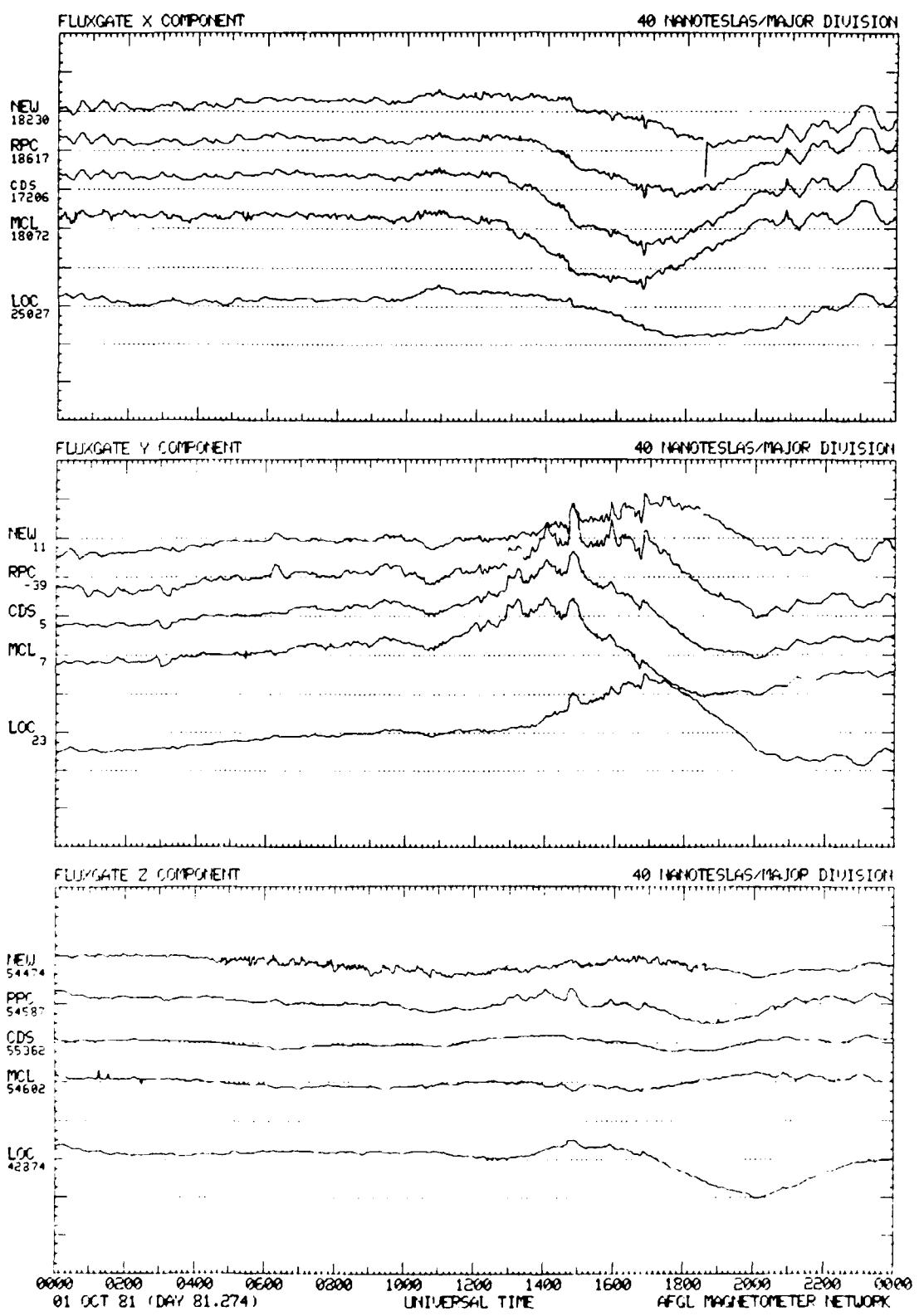


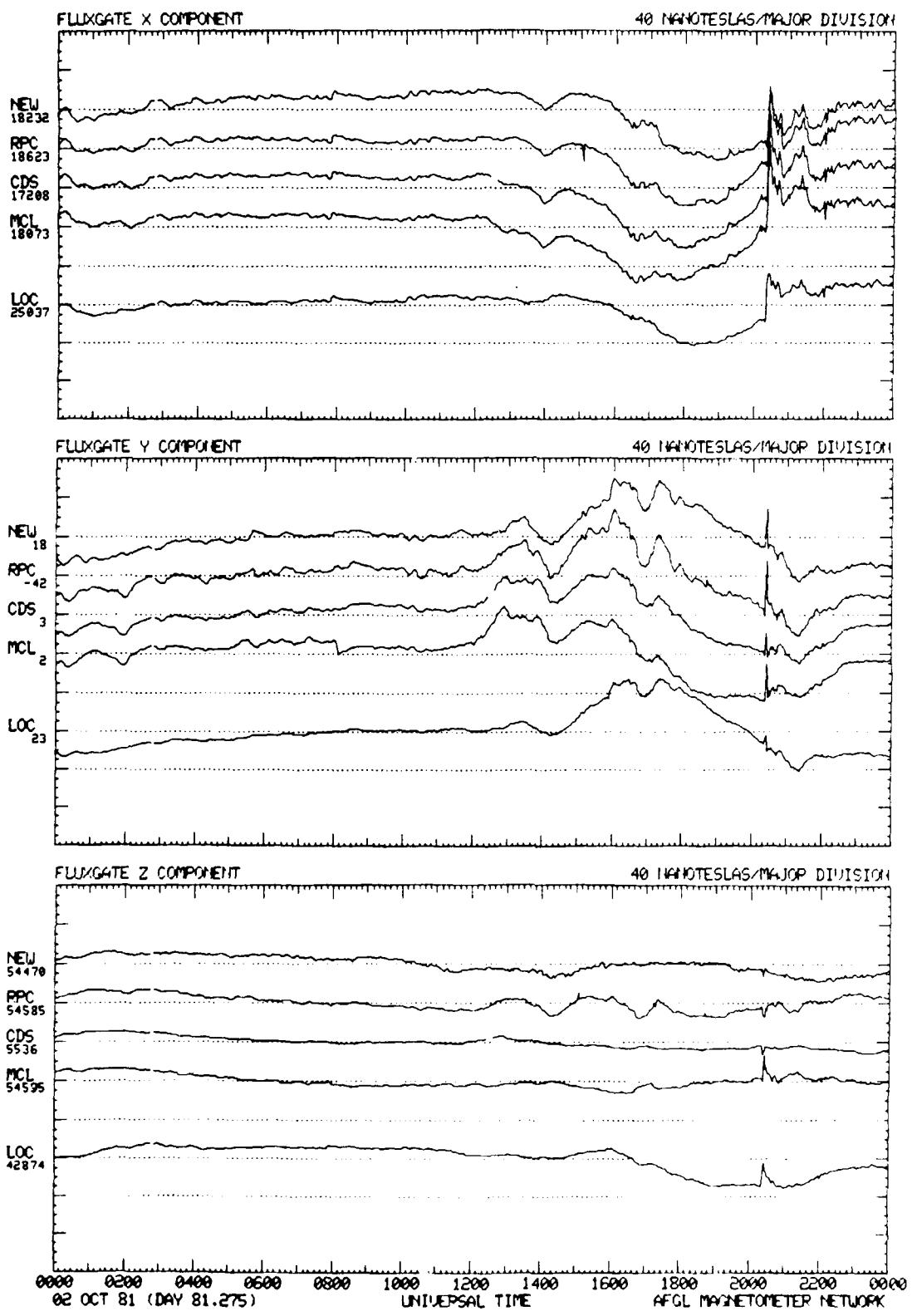


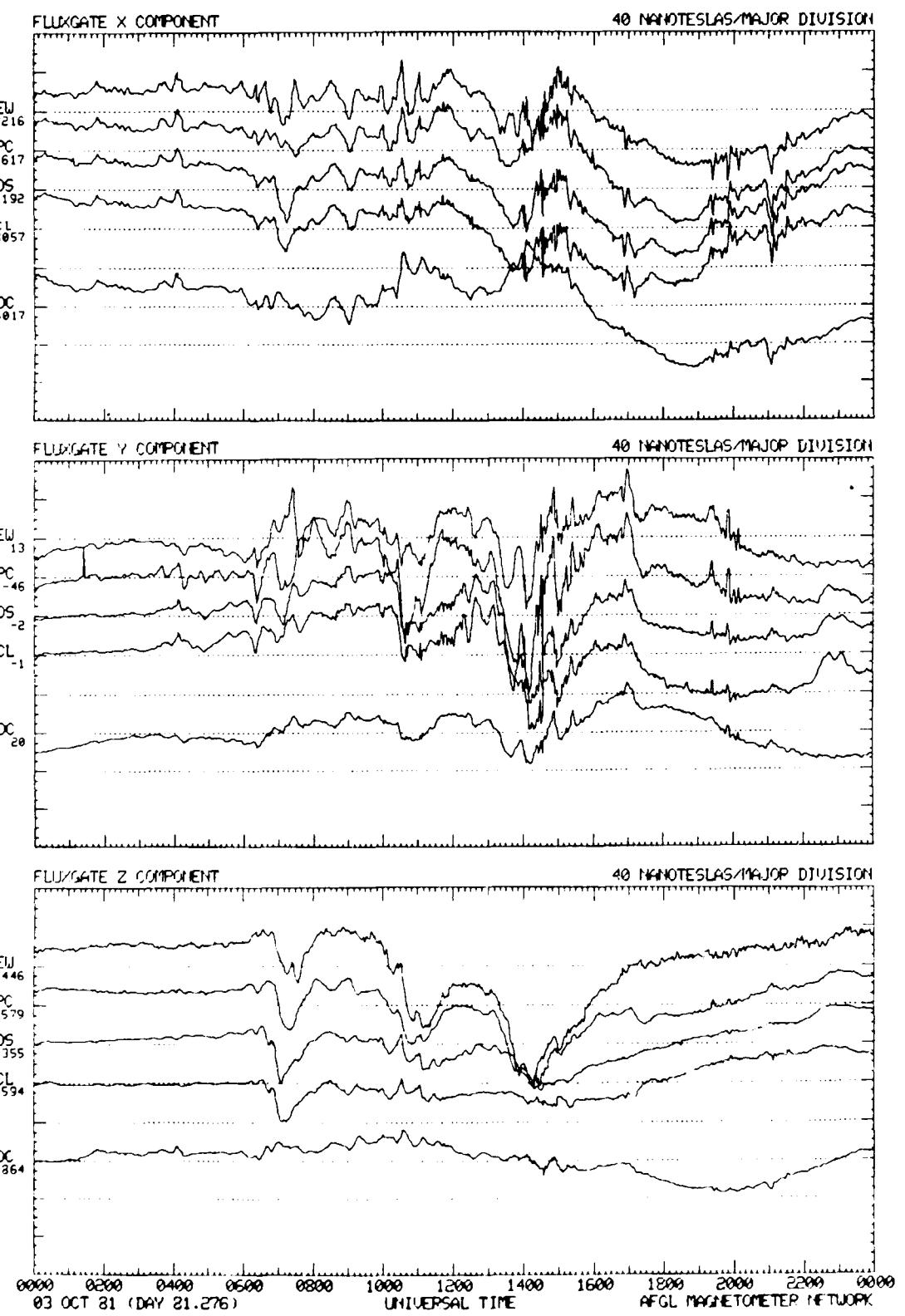












AD-1173 958

DAILY MAGNETograms FOR 1981 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(CU) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 28 FEB 85

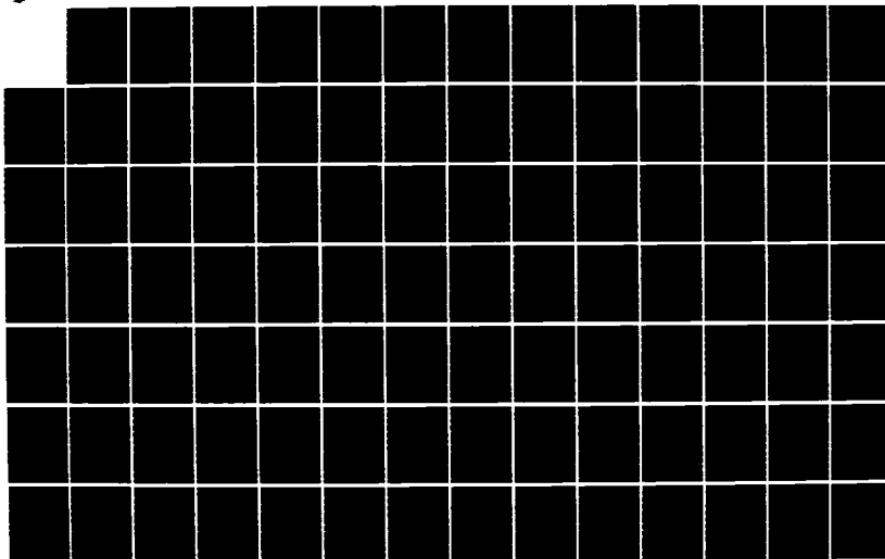
4/5

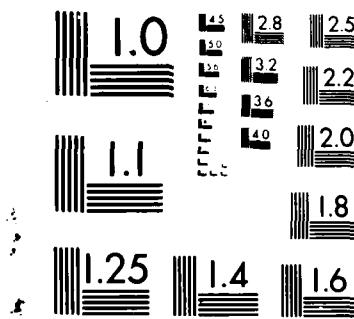
UNCLASSIFIED

AFGL-TR-85-0030

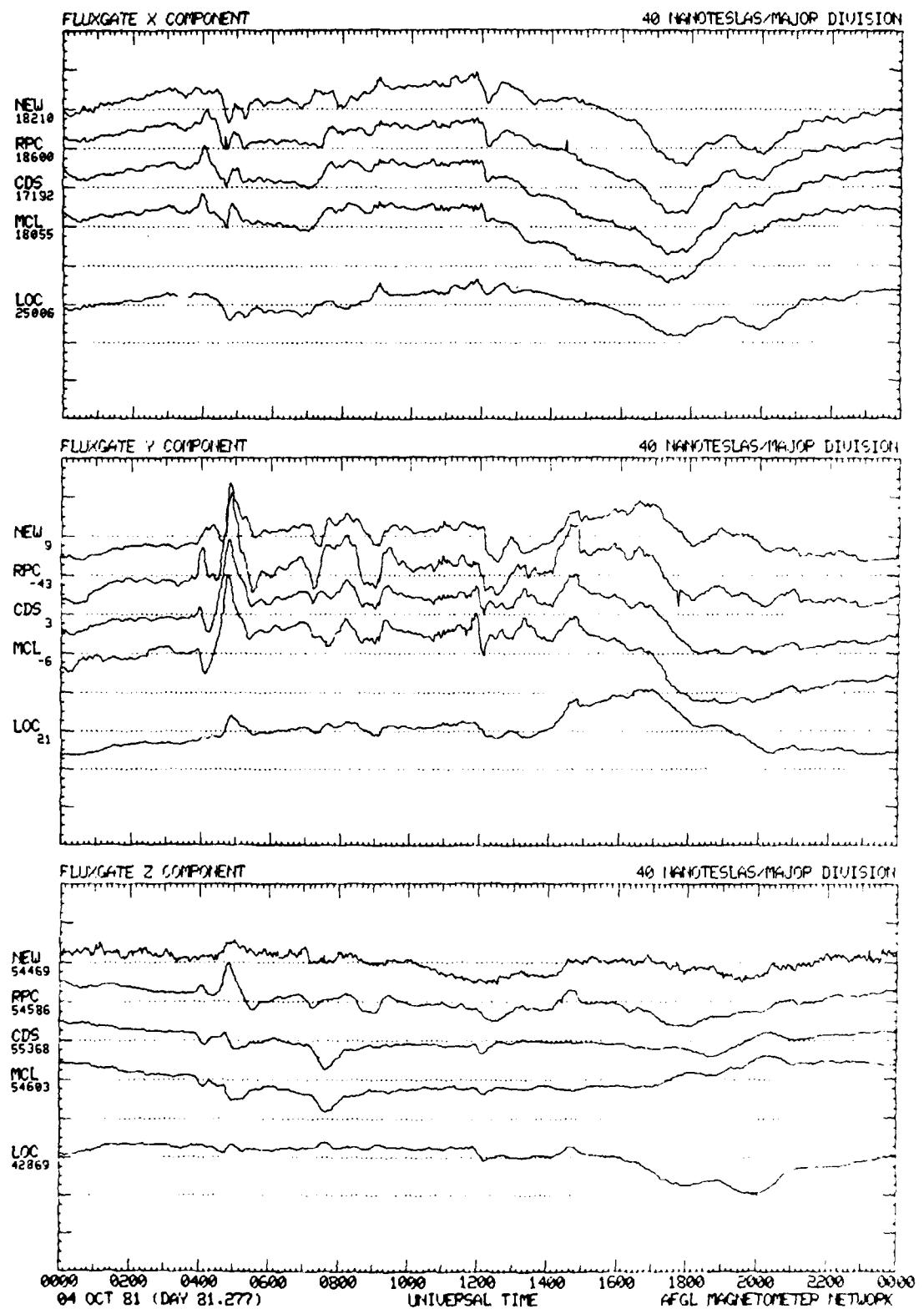
F/G 4/1

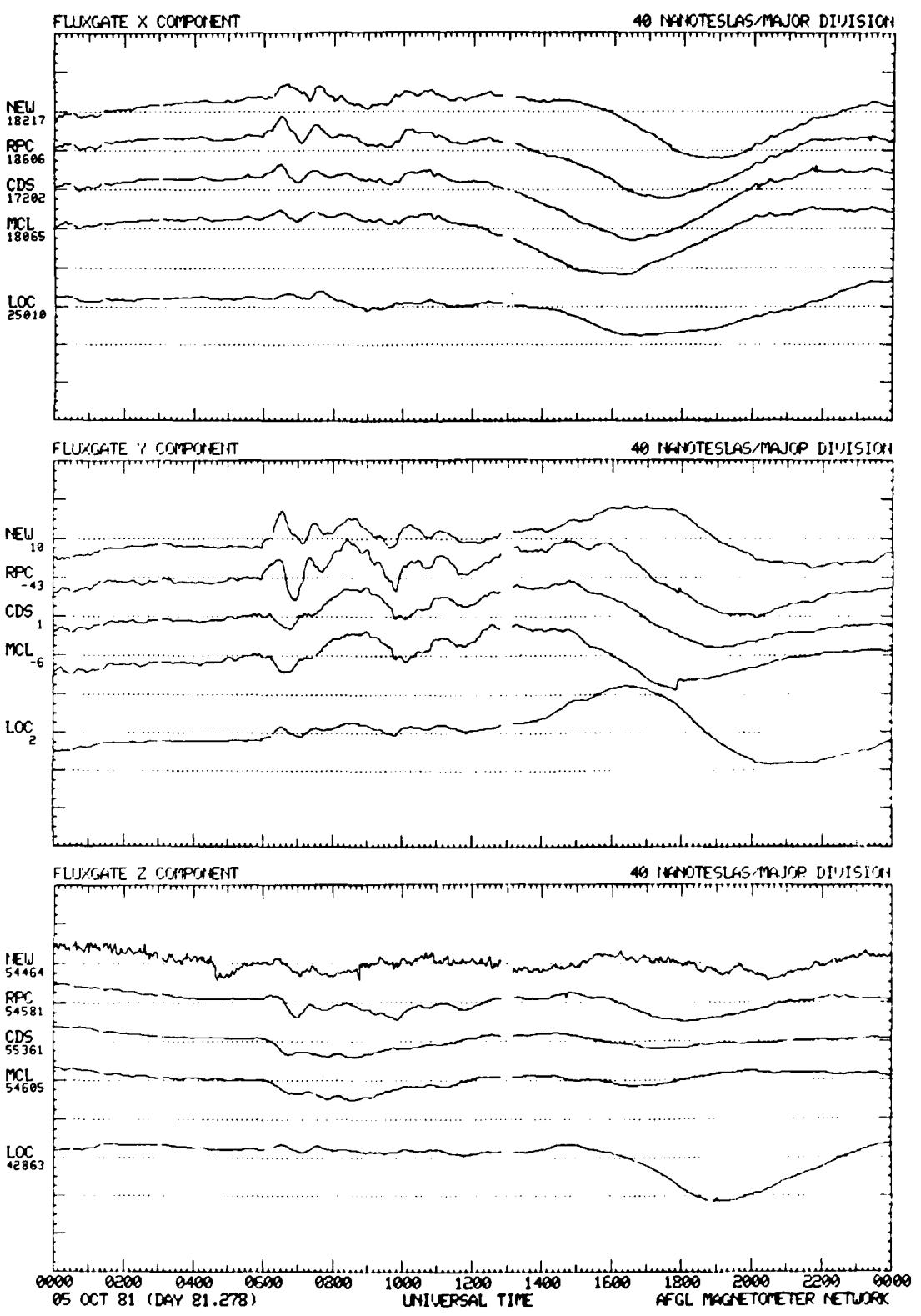
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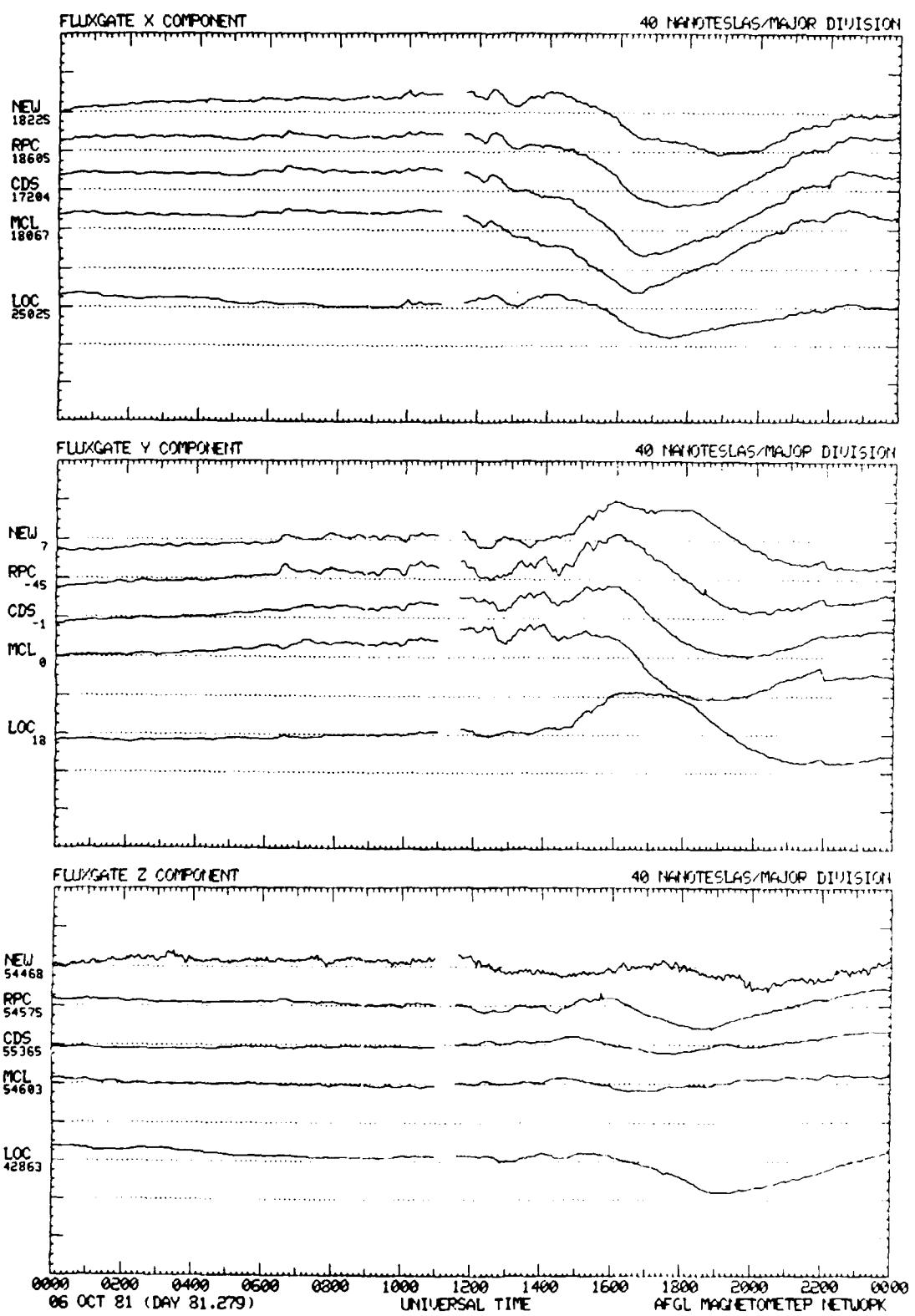


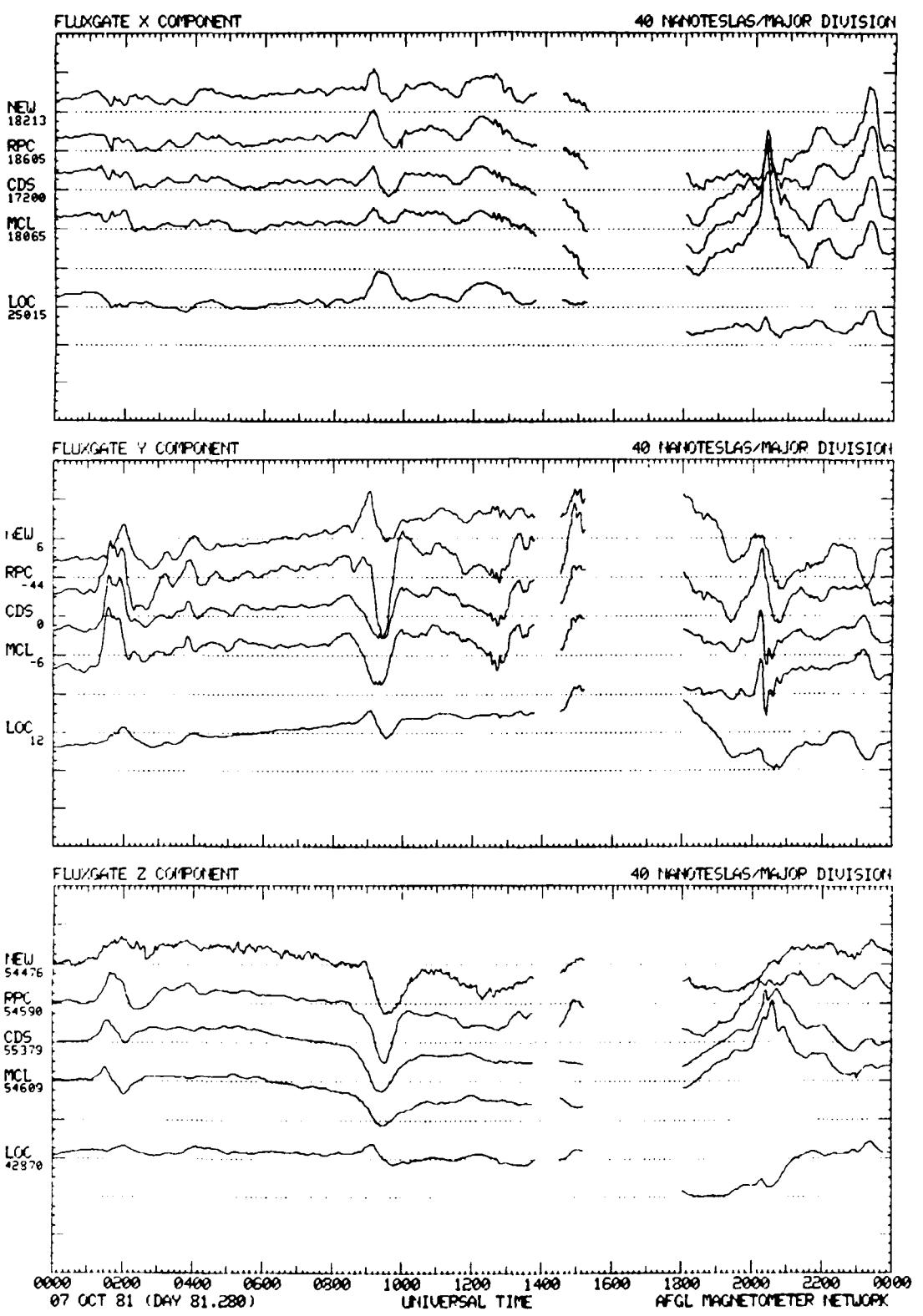


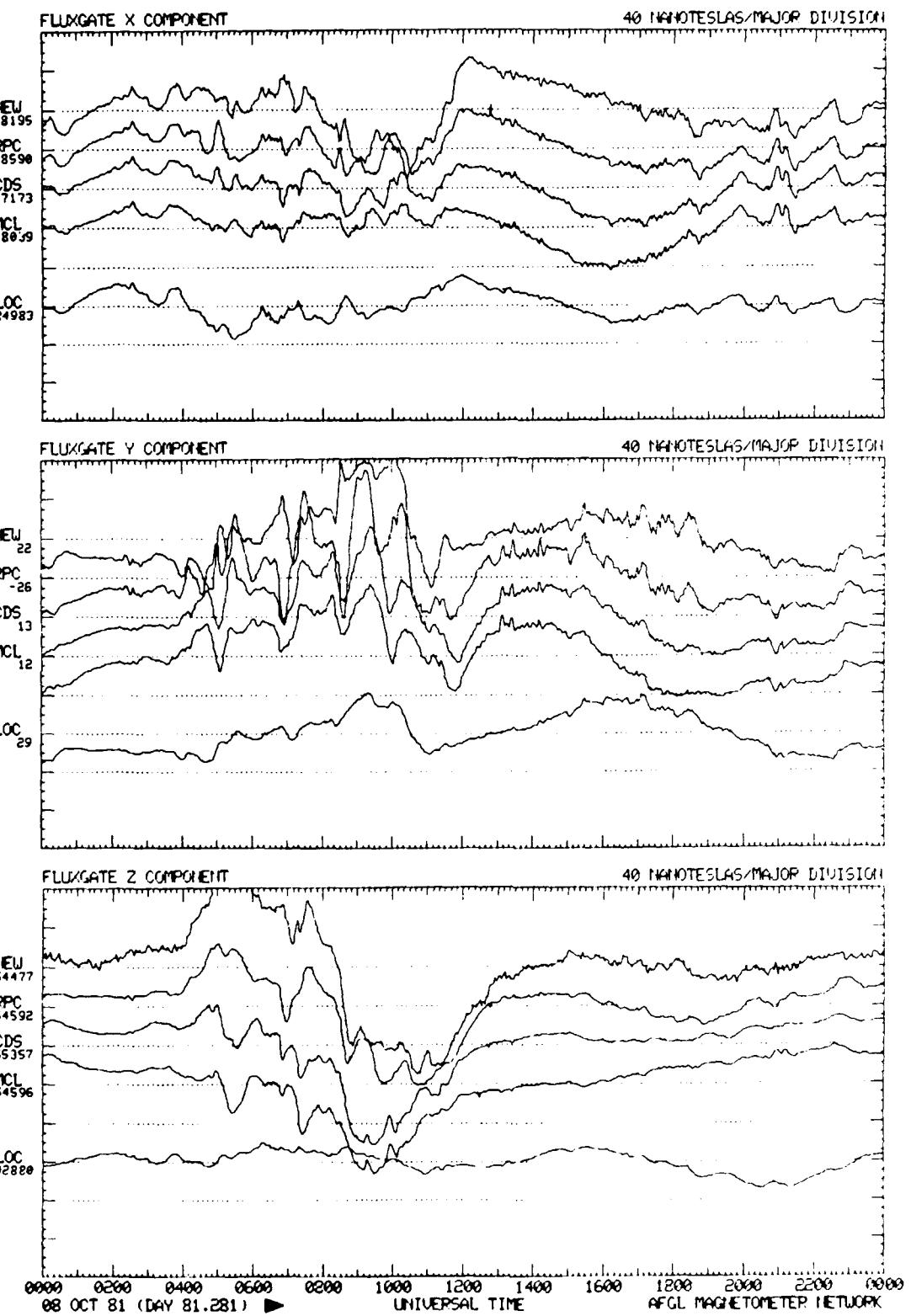
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

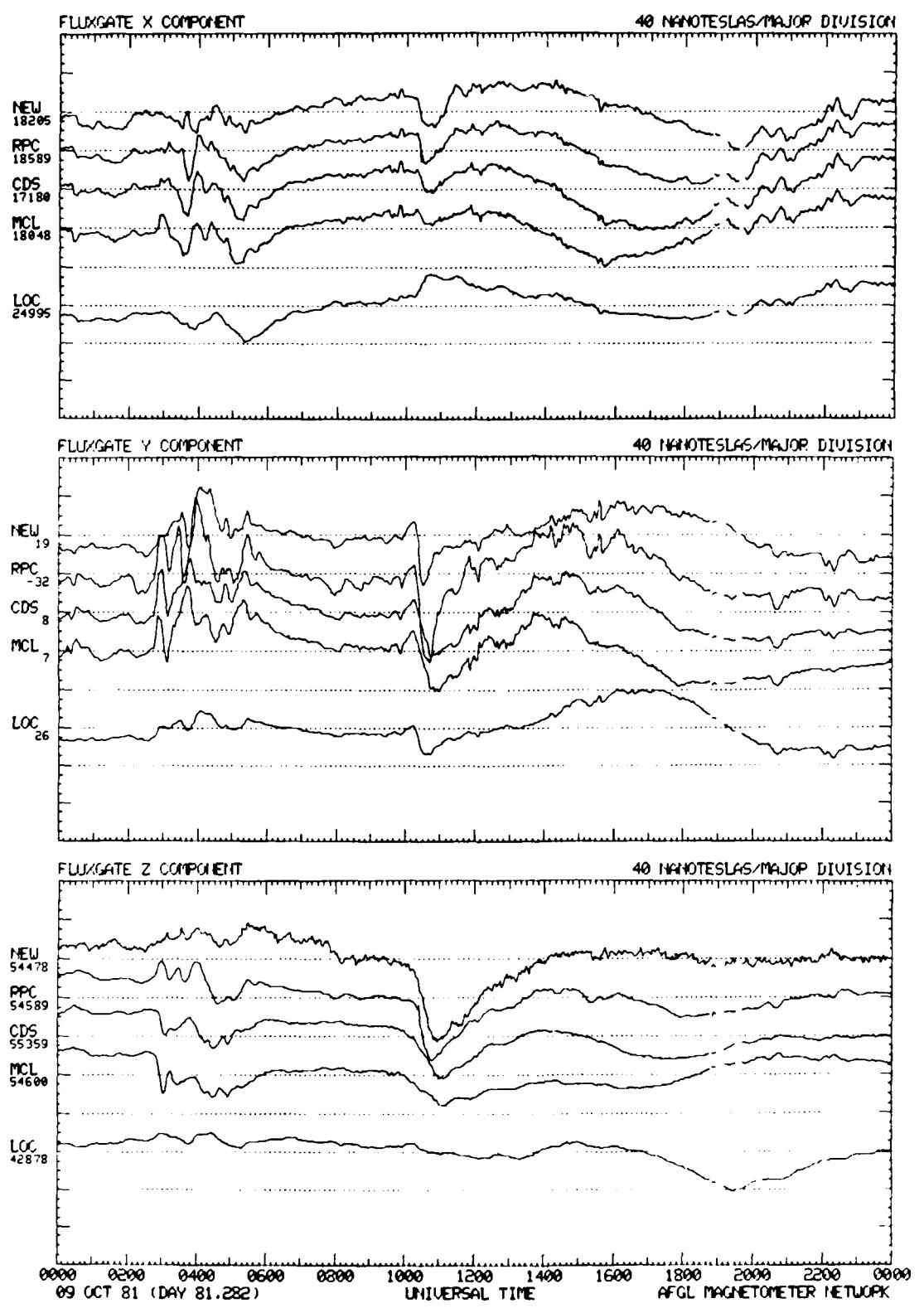


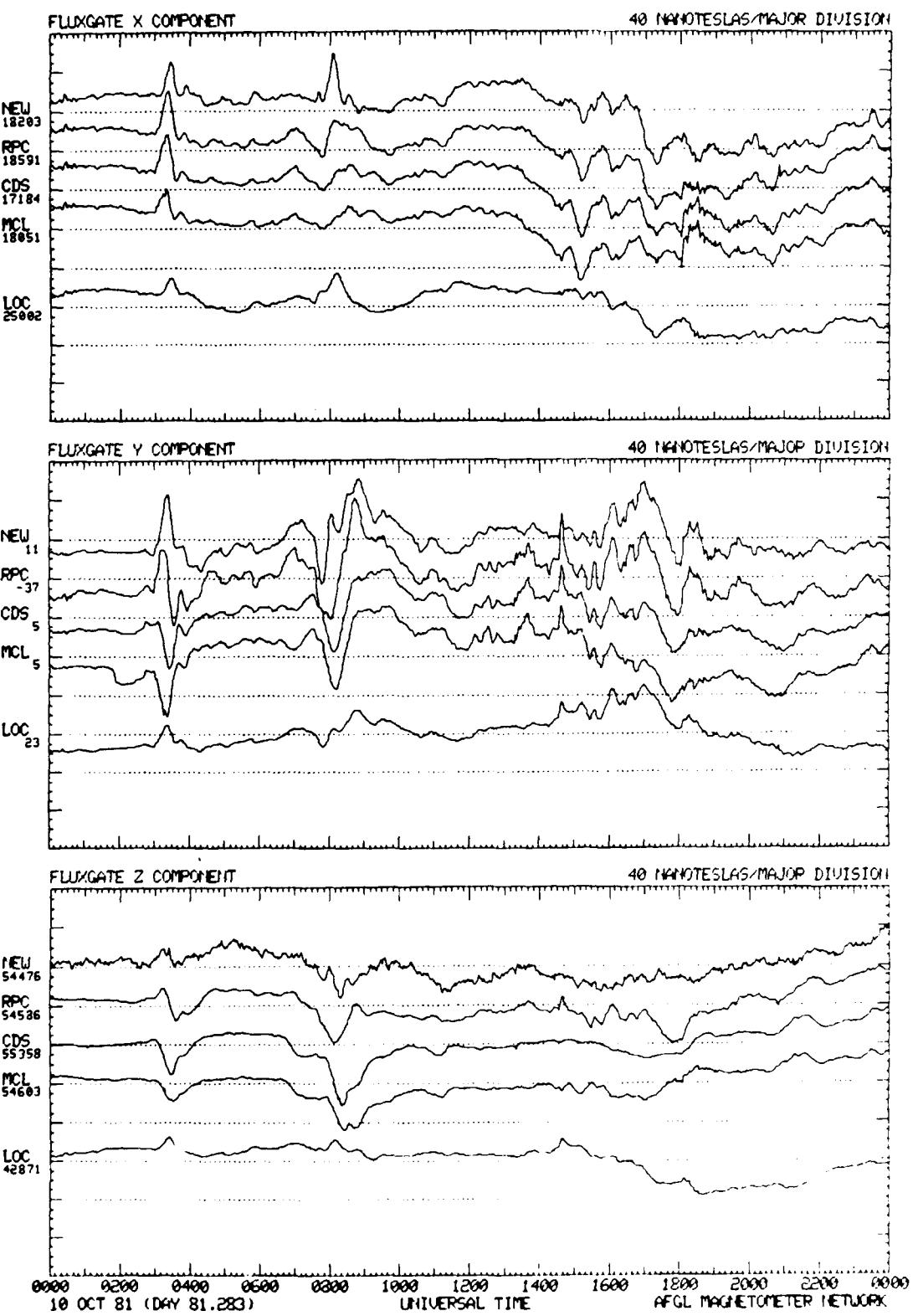


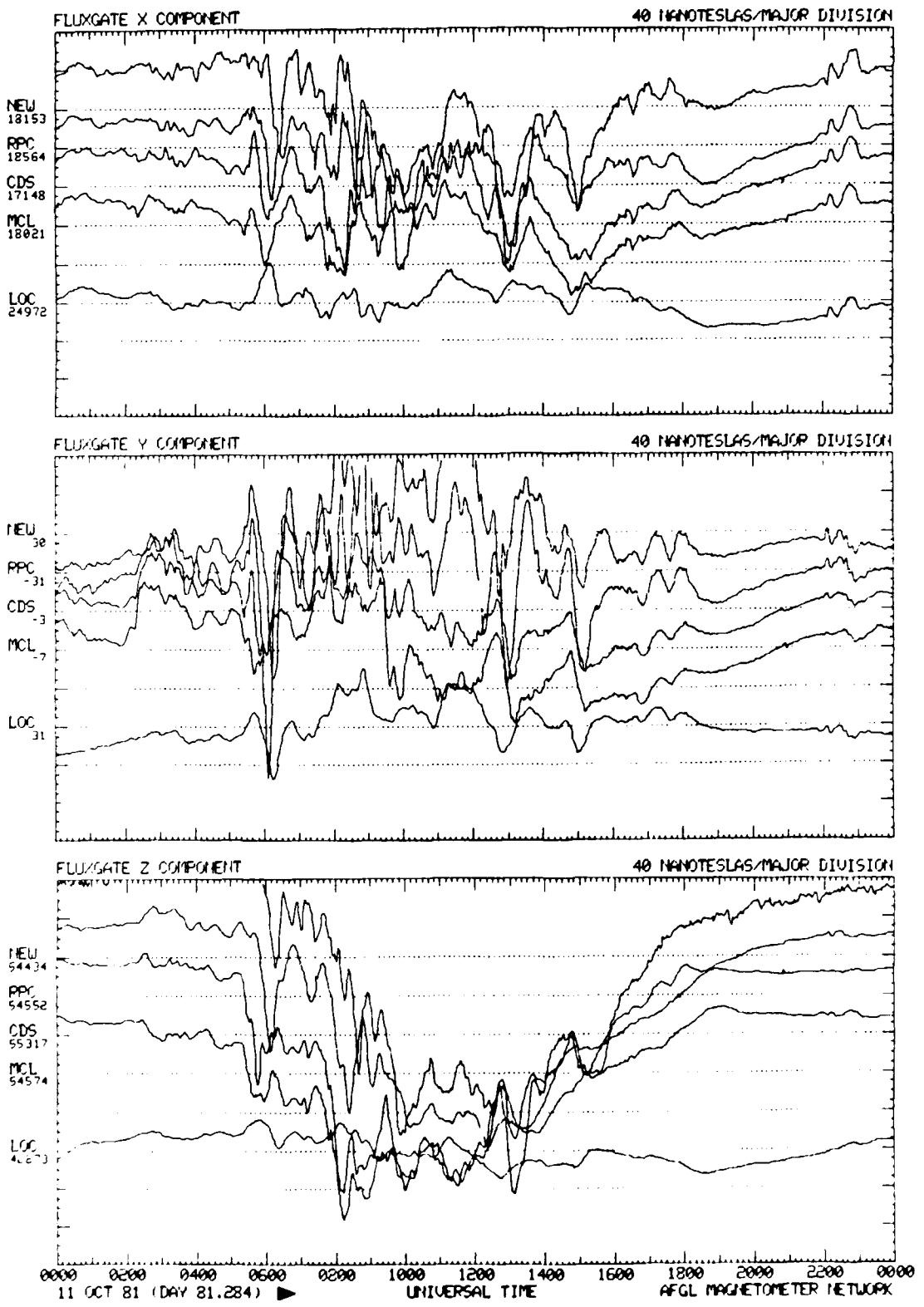


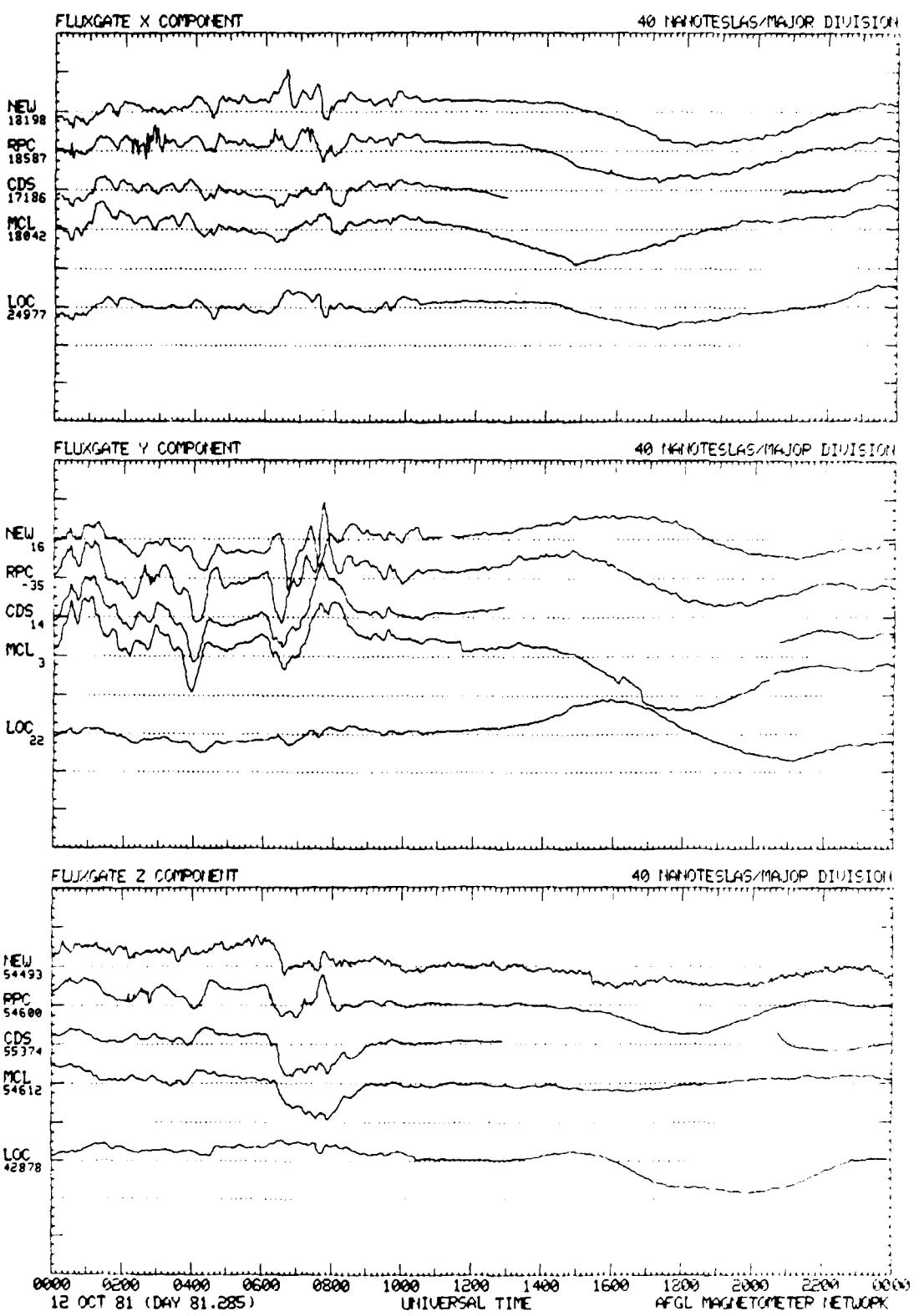


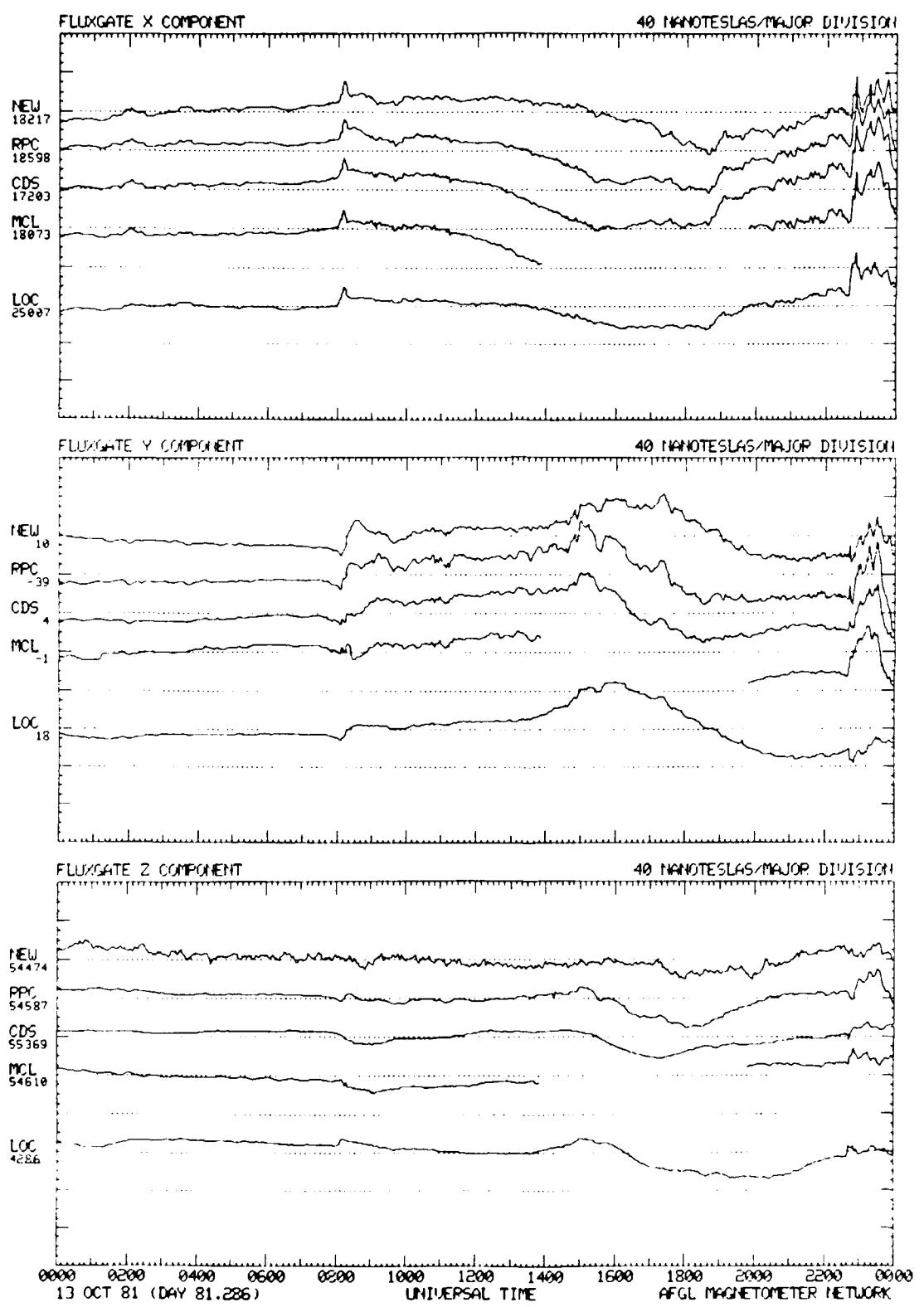


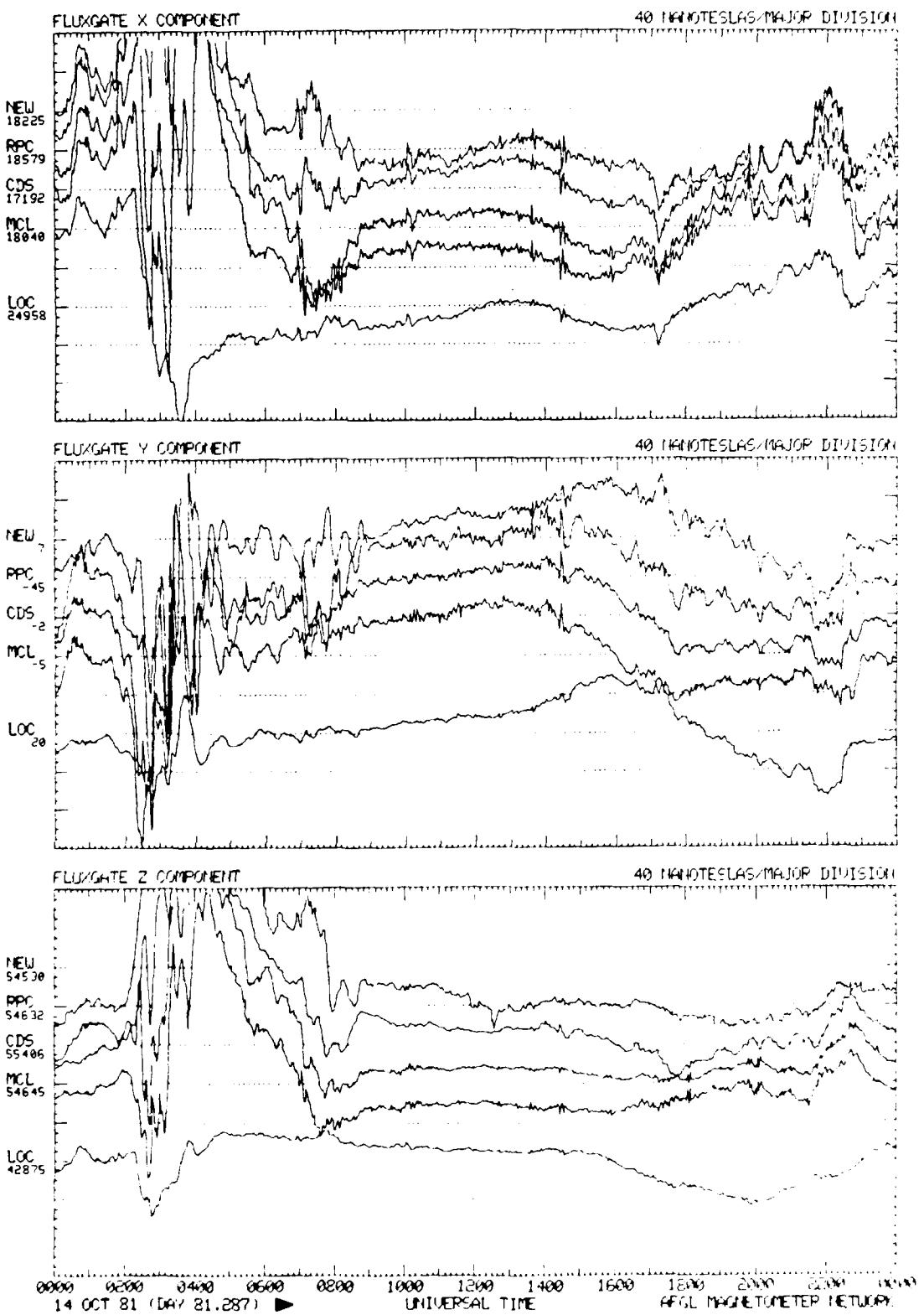


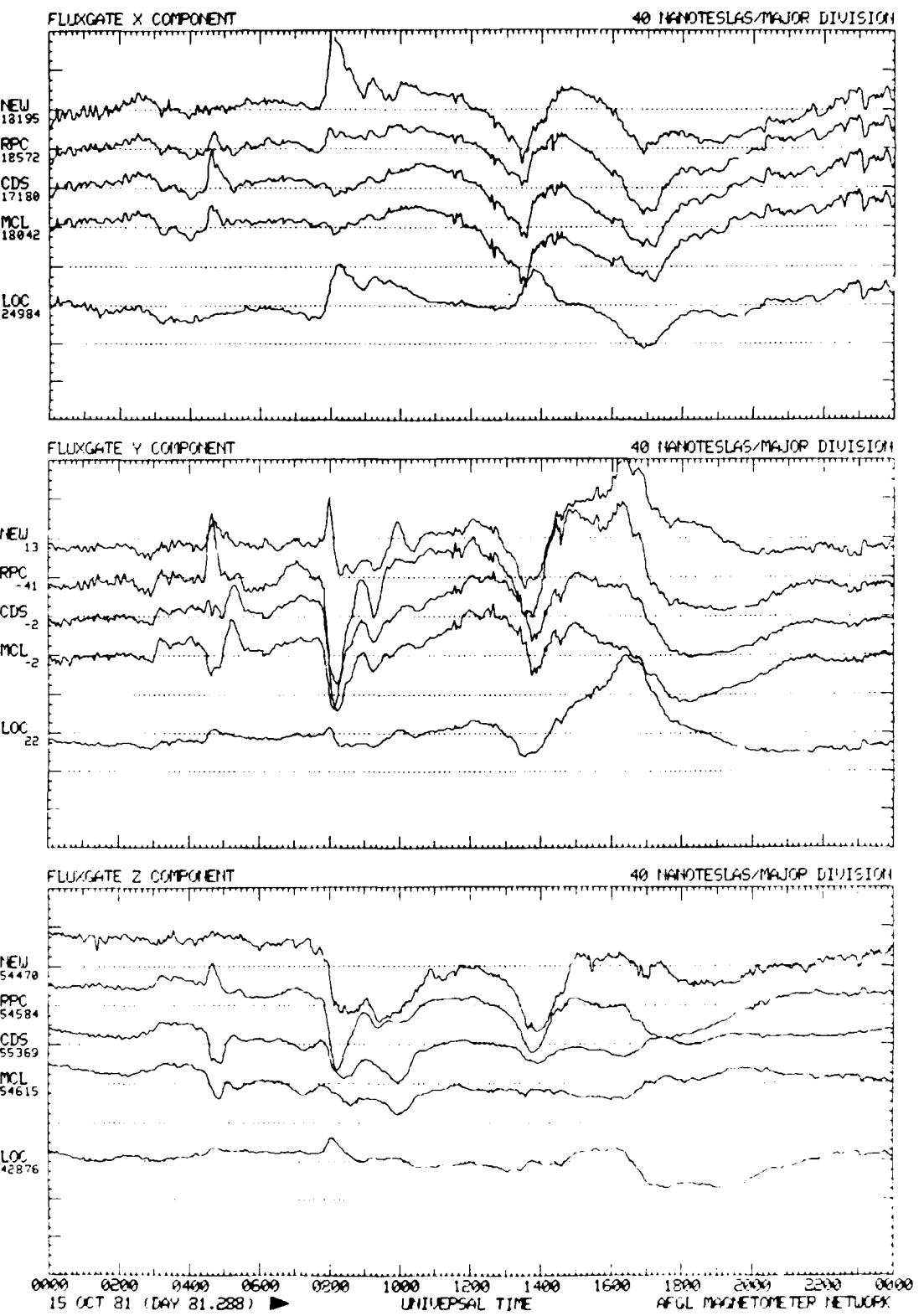












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18204
RPC
18584
CDS
17.68
MCL
18053

LOC
24989

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13
RPC
-39
CDS
8
MCL
-8

LOC
20

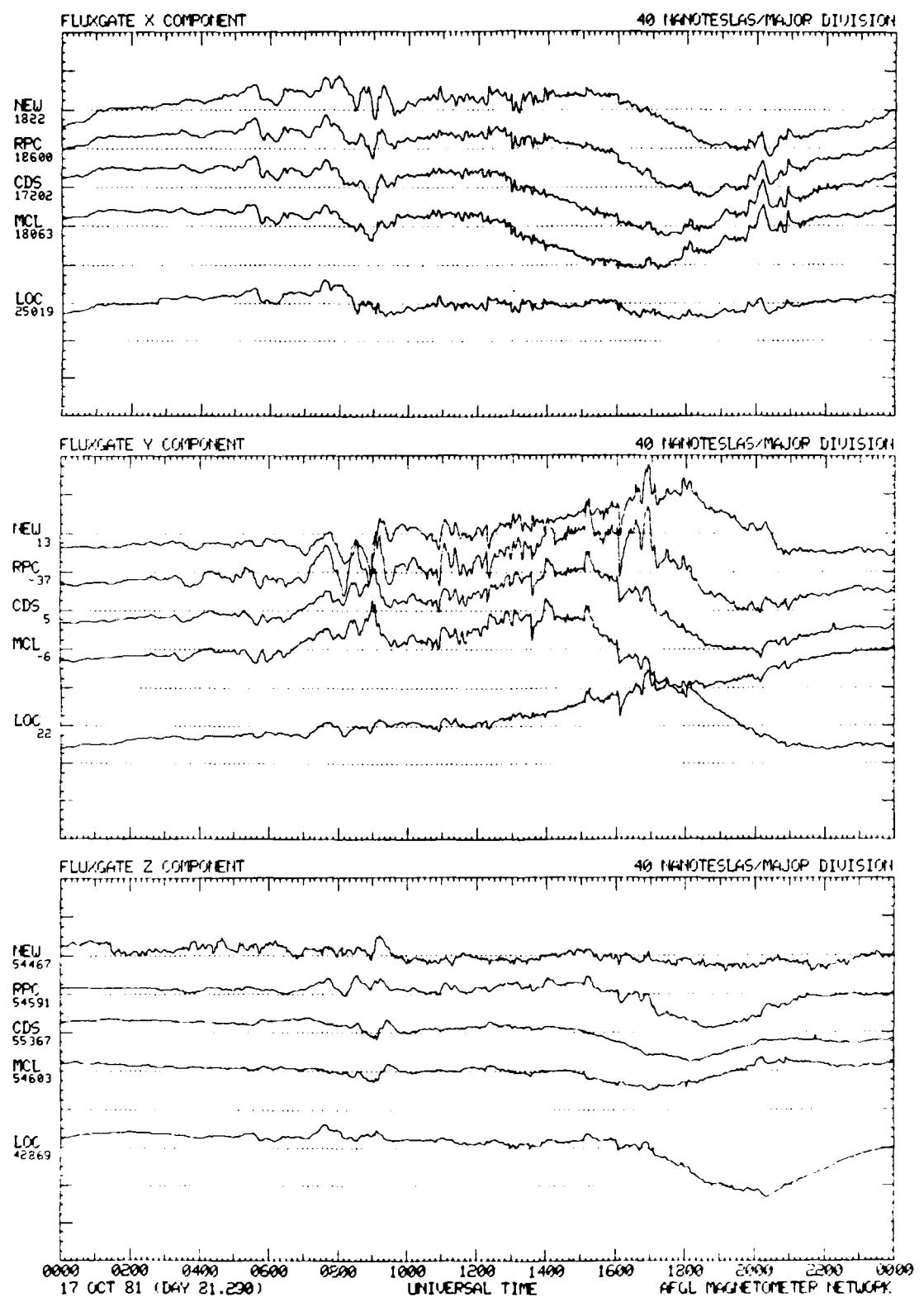
FLUXGATE Z COMPONENT

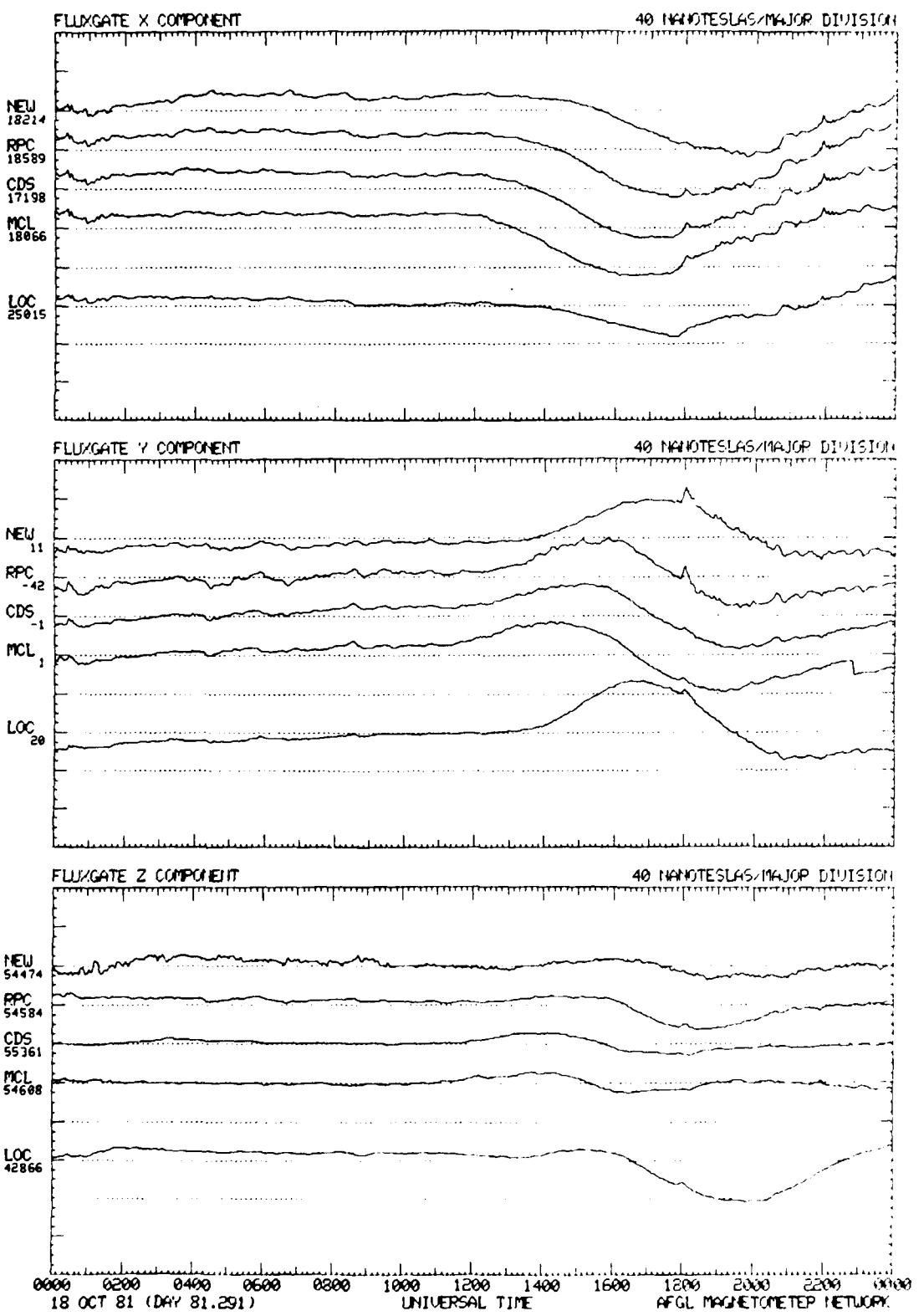
40 NANOTESLAS/MAJOR DIVISION

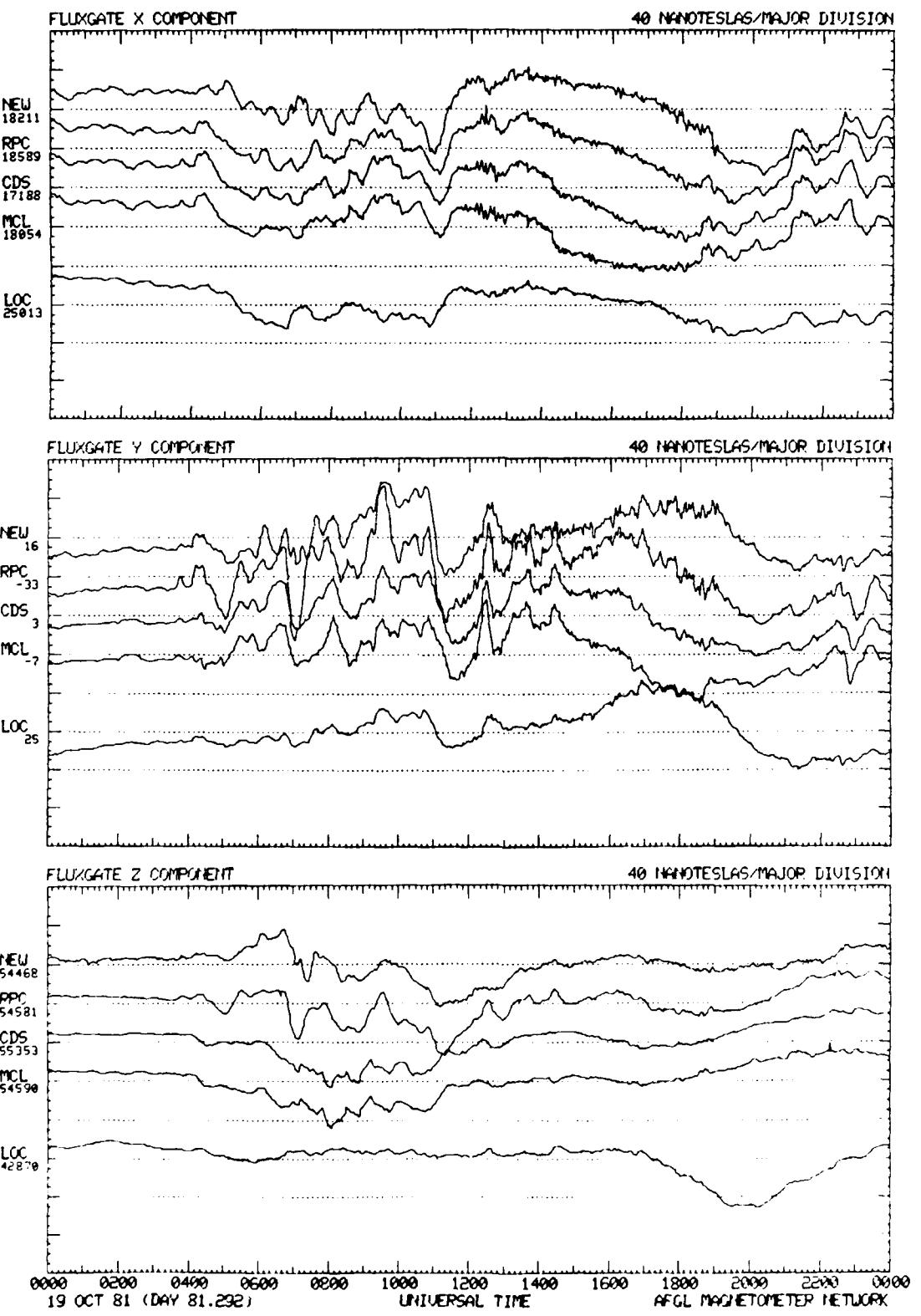
NEW
54477
RPC
54593
CDS
55379
MCL
54689

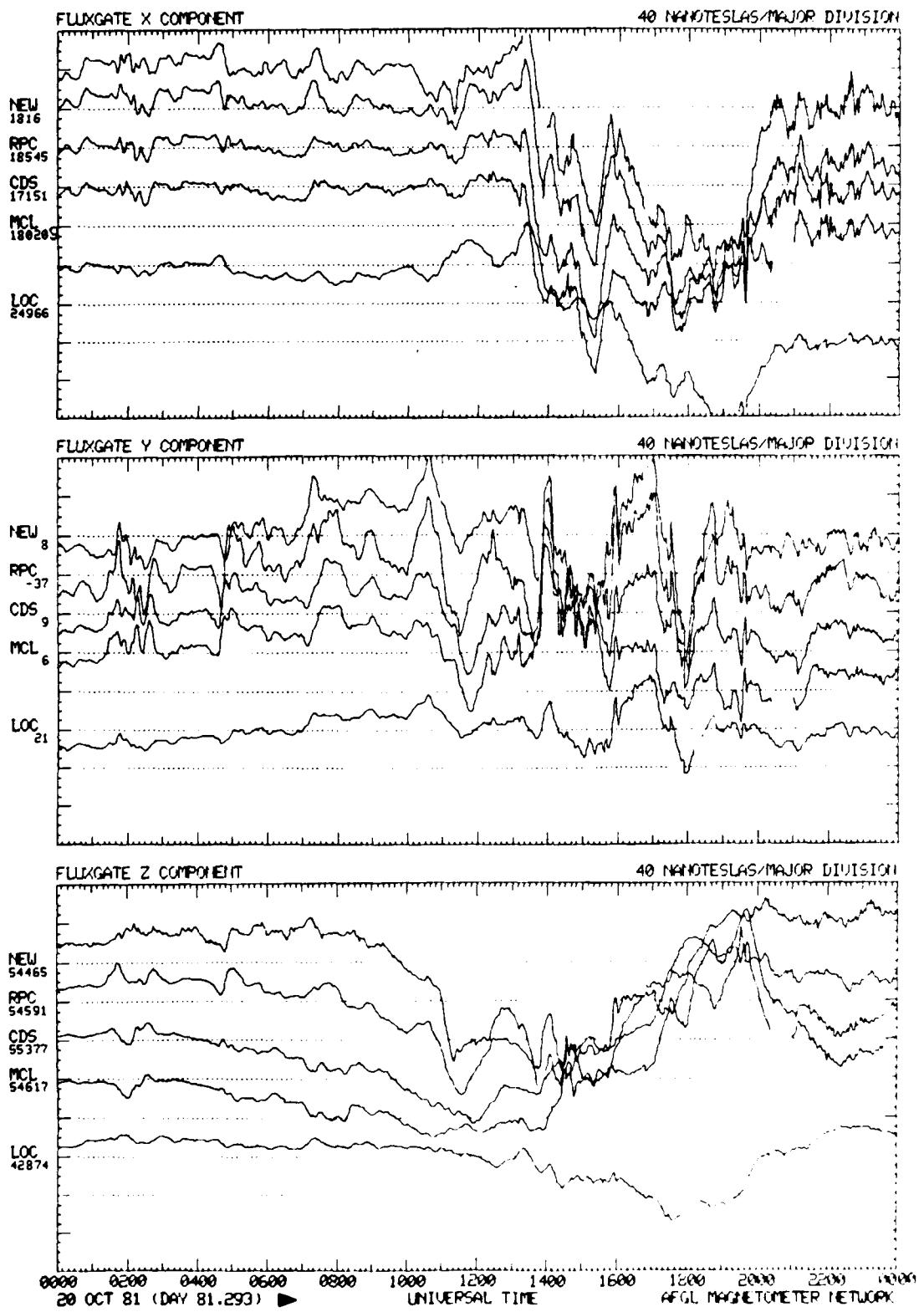
LOC
42867

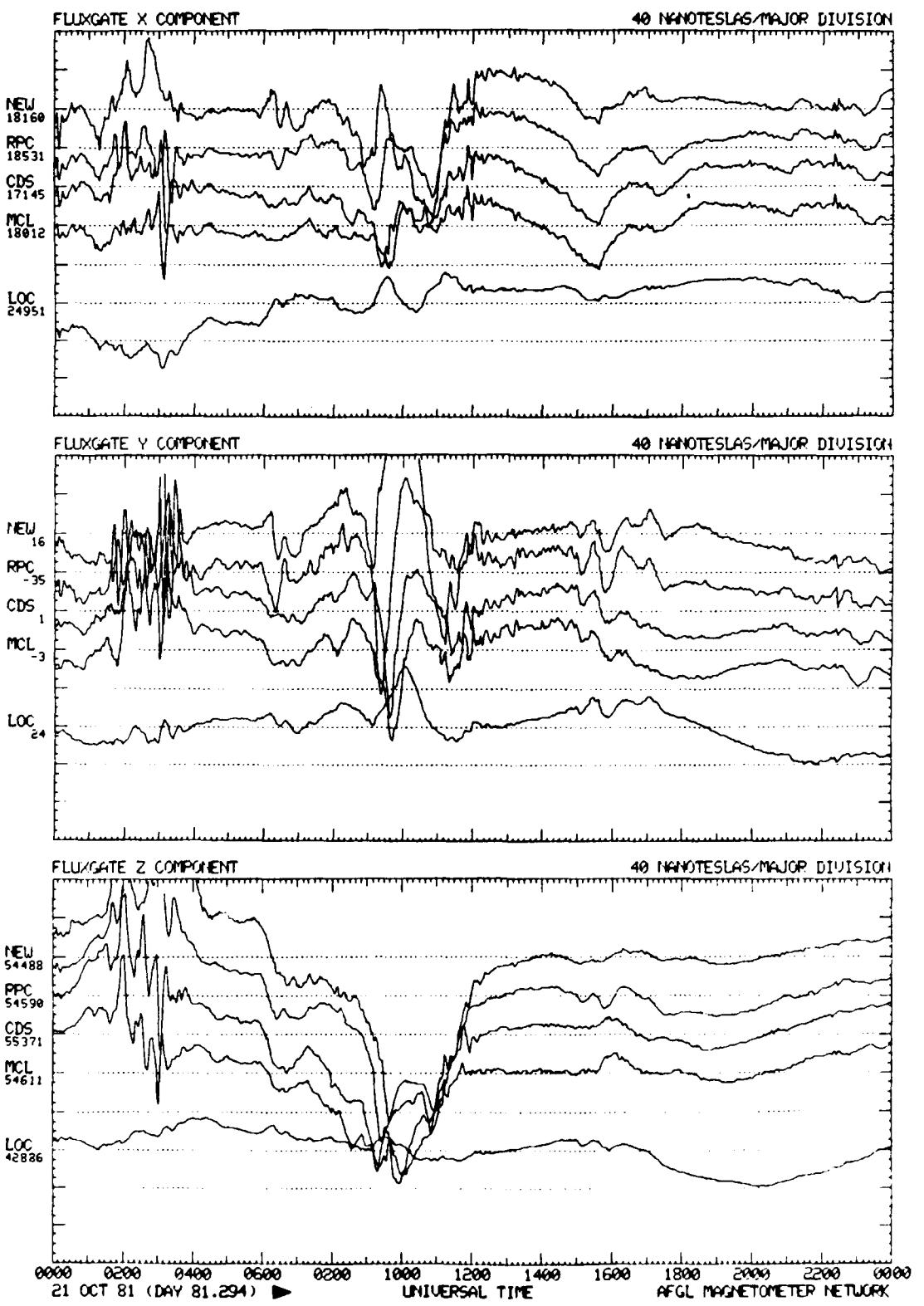
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 OCT 81 (DAY 81.289) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

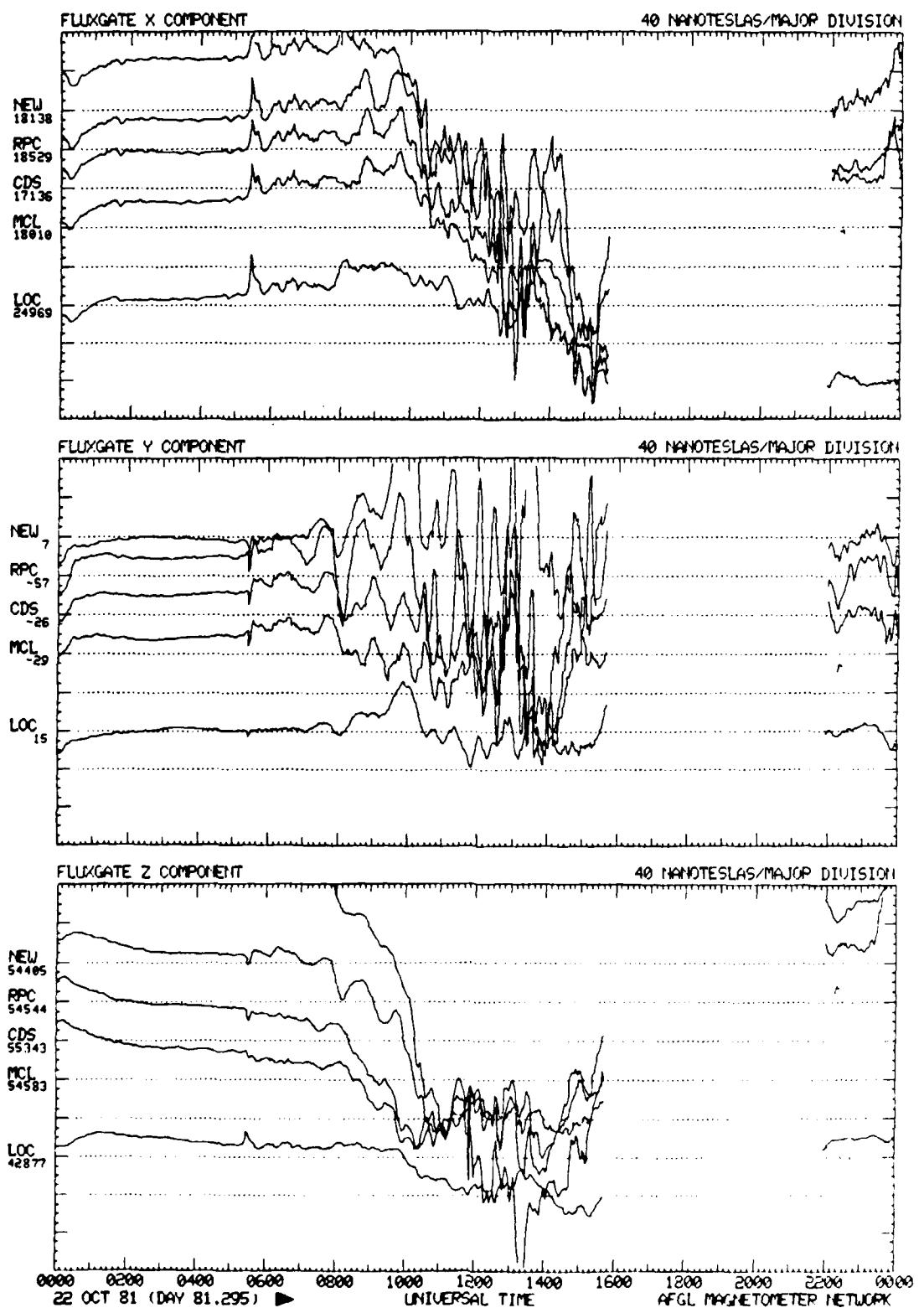


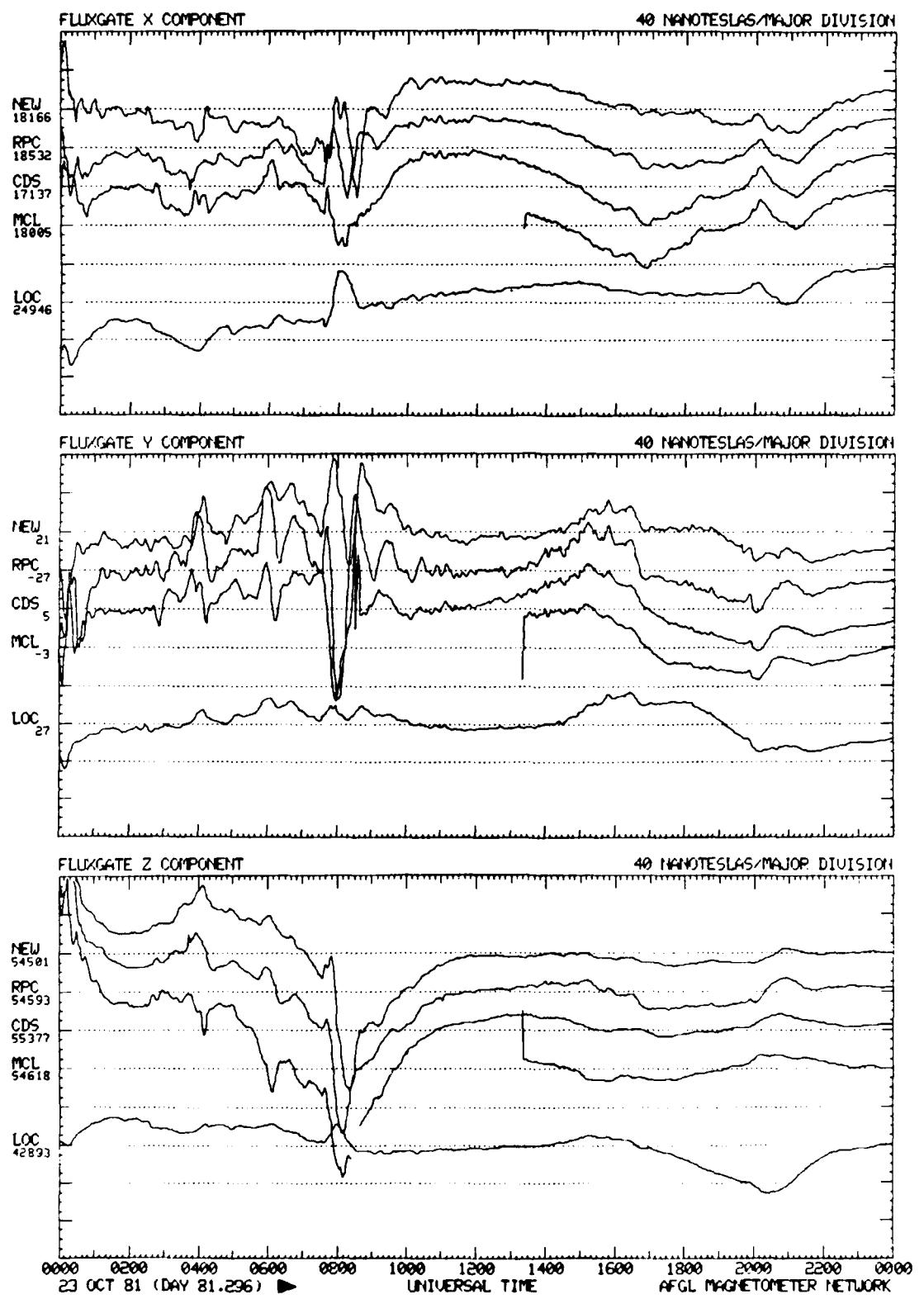












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18188
RPC
18561
CDS
17159
MCL
18032LOC
24979

FLUXGATE Y COMPONENT

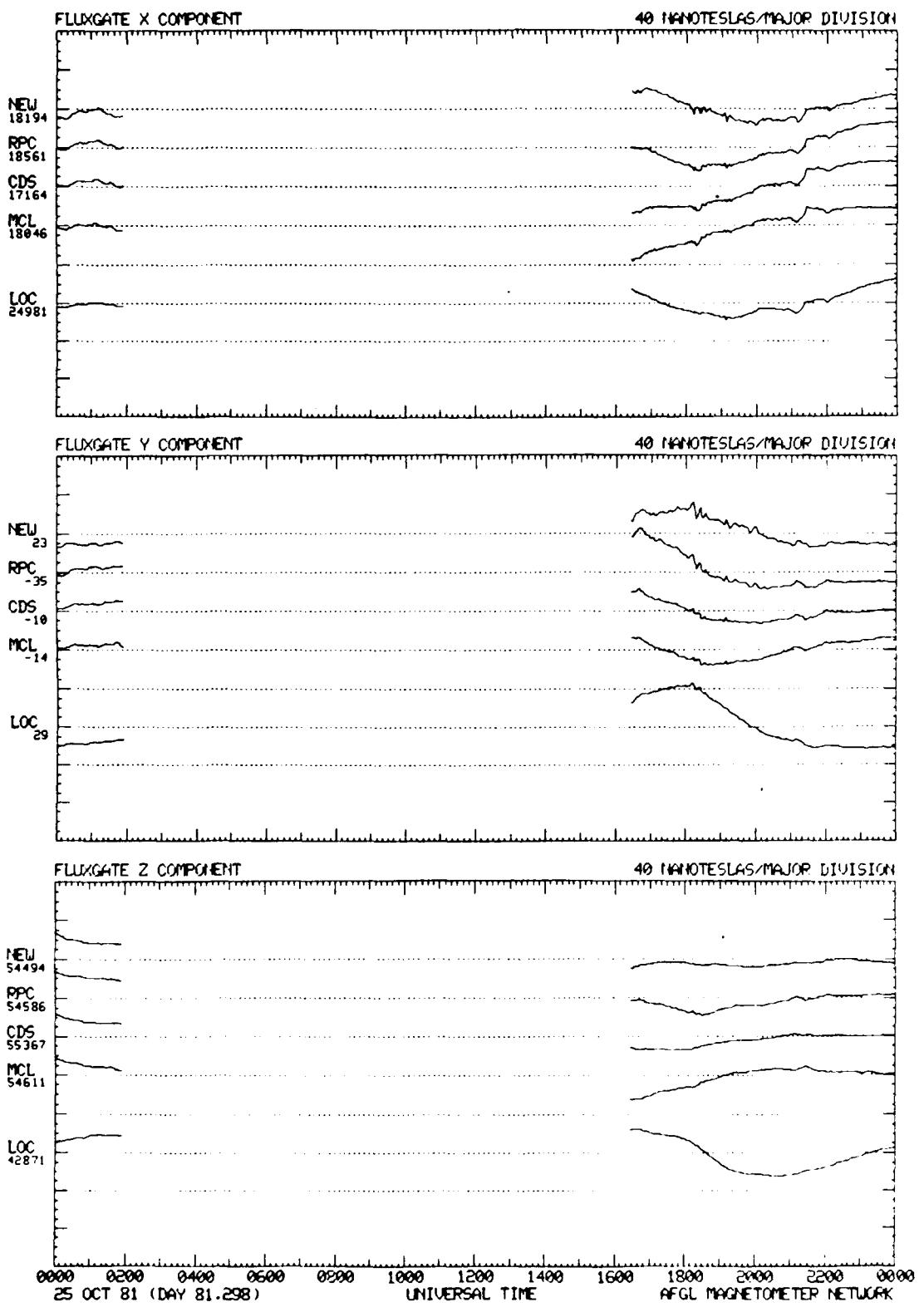
40 NANOTESLAS/MAJOR DIVISION

NEW
2
RPC
-39
CDS
-11
MCL
-17LOC
15

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54484
RPC
54592
CDS
55378
MCL
54612LOC
428780000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
24 OCT 81 (DAY 81.297) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18218
RPC
18593
CDS
17191
MCL
18063LOC
25010

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18
PPC
-32
CDS
3
MCL
10LOC
20

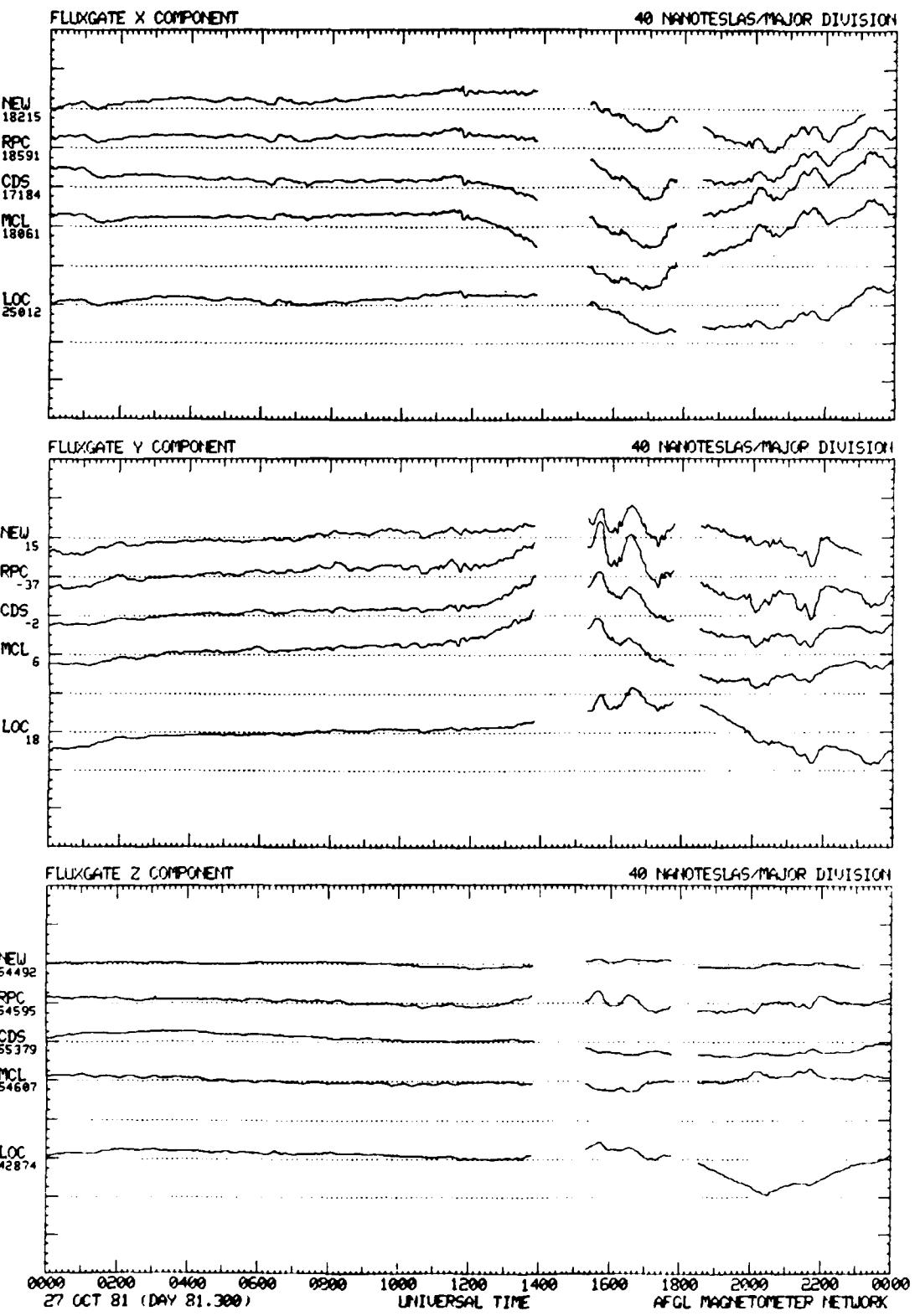
FLUXGATE Z COMPONENT

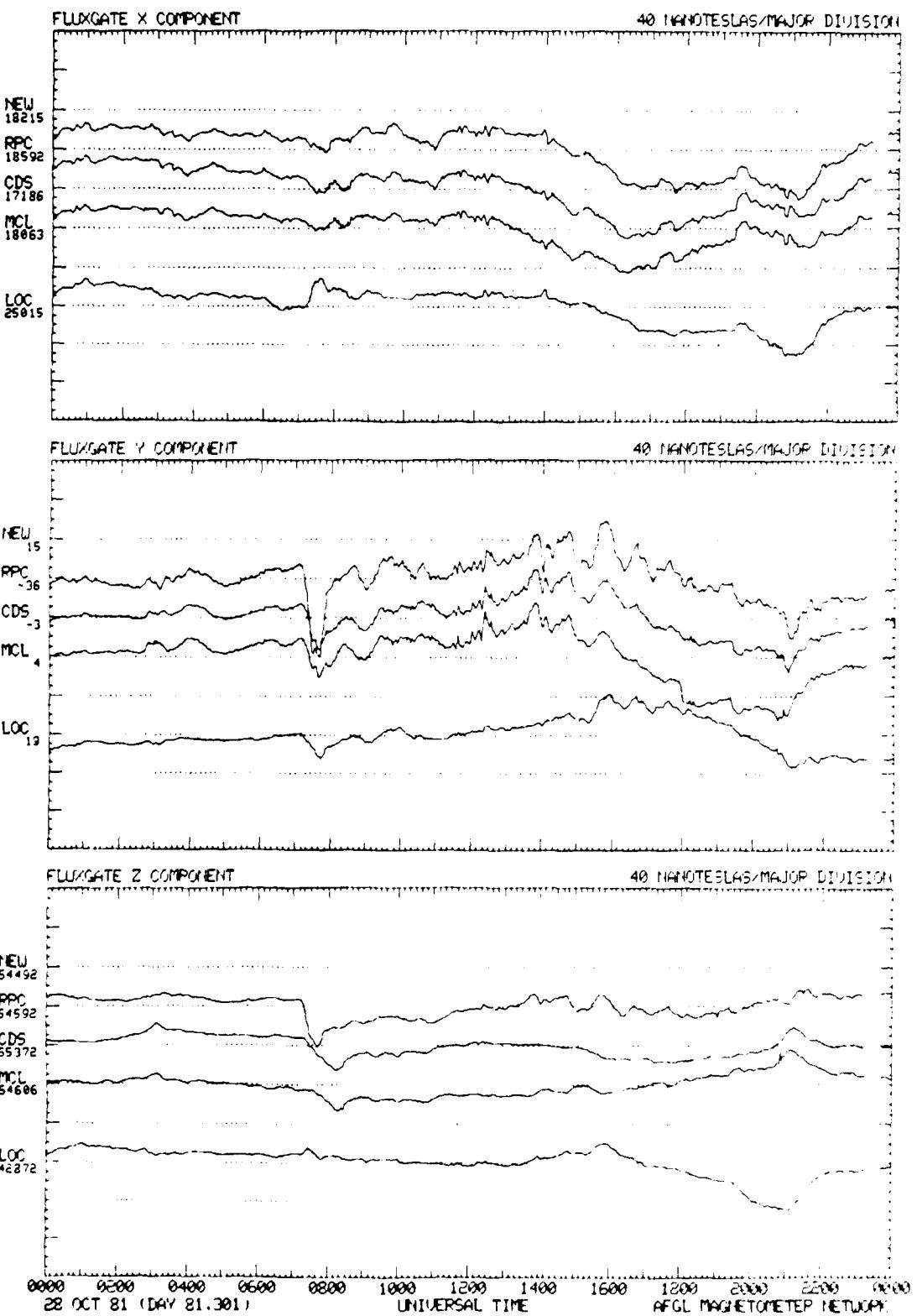
40 NANOTESLAS/MAJOR DIVISION

NEW
54490
PPC
54589
CDS
55365
MCL
54606LOC
428760000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 OCT 81 (DAY 81.299)

UNIVERSAL TIME

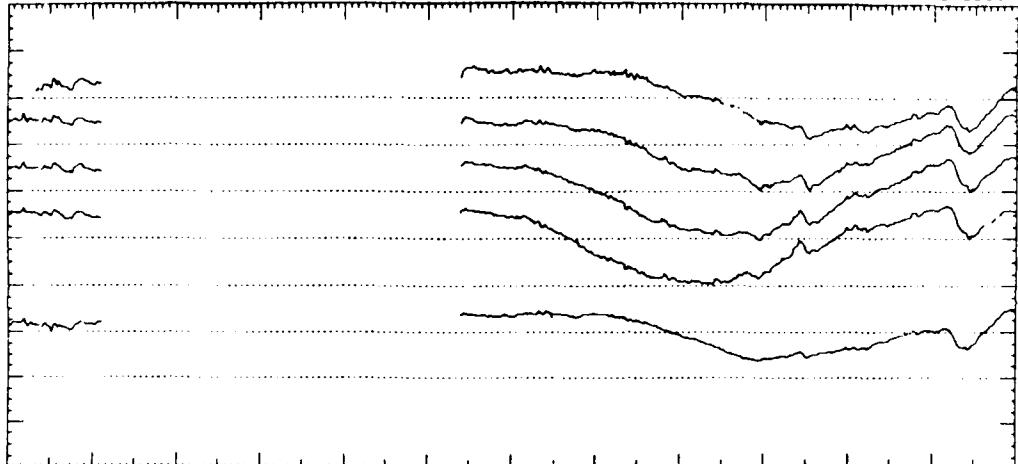
AFGL MAGNETOMETER NETWORK





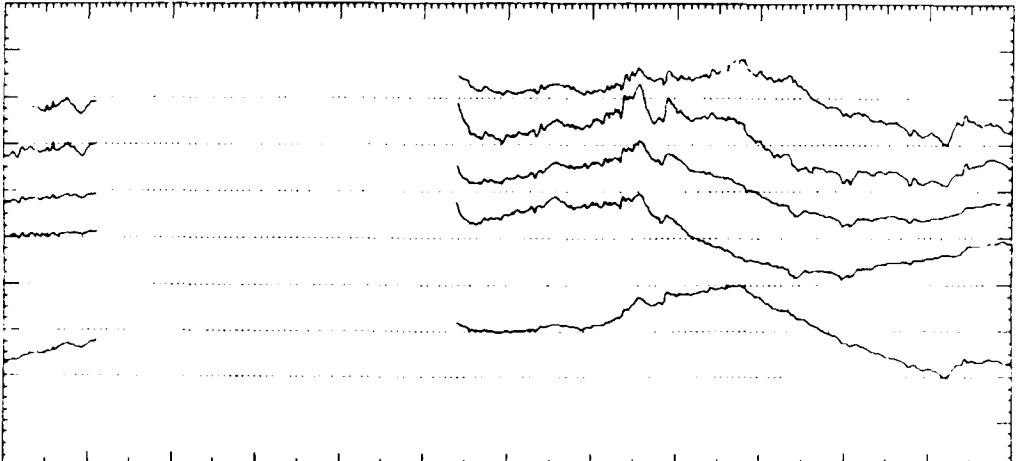
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18208
RPC
18589
CDS
17183
MCL
18055
LOC
25008

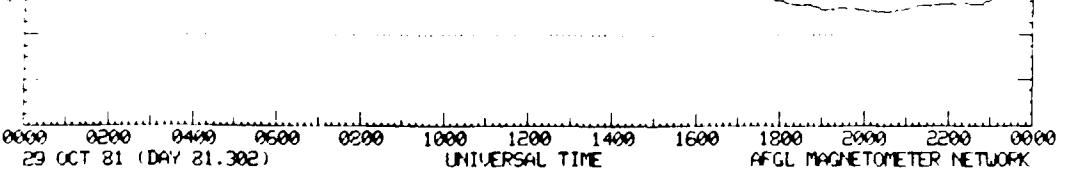
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

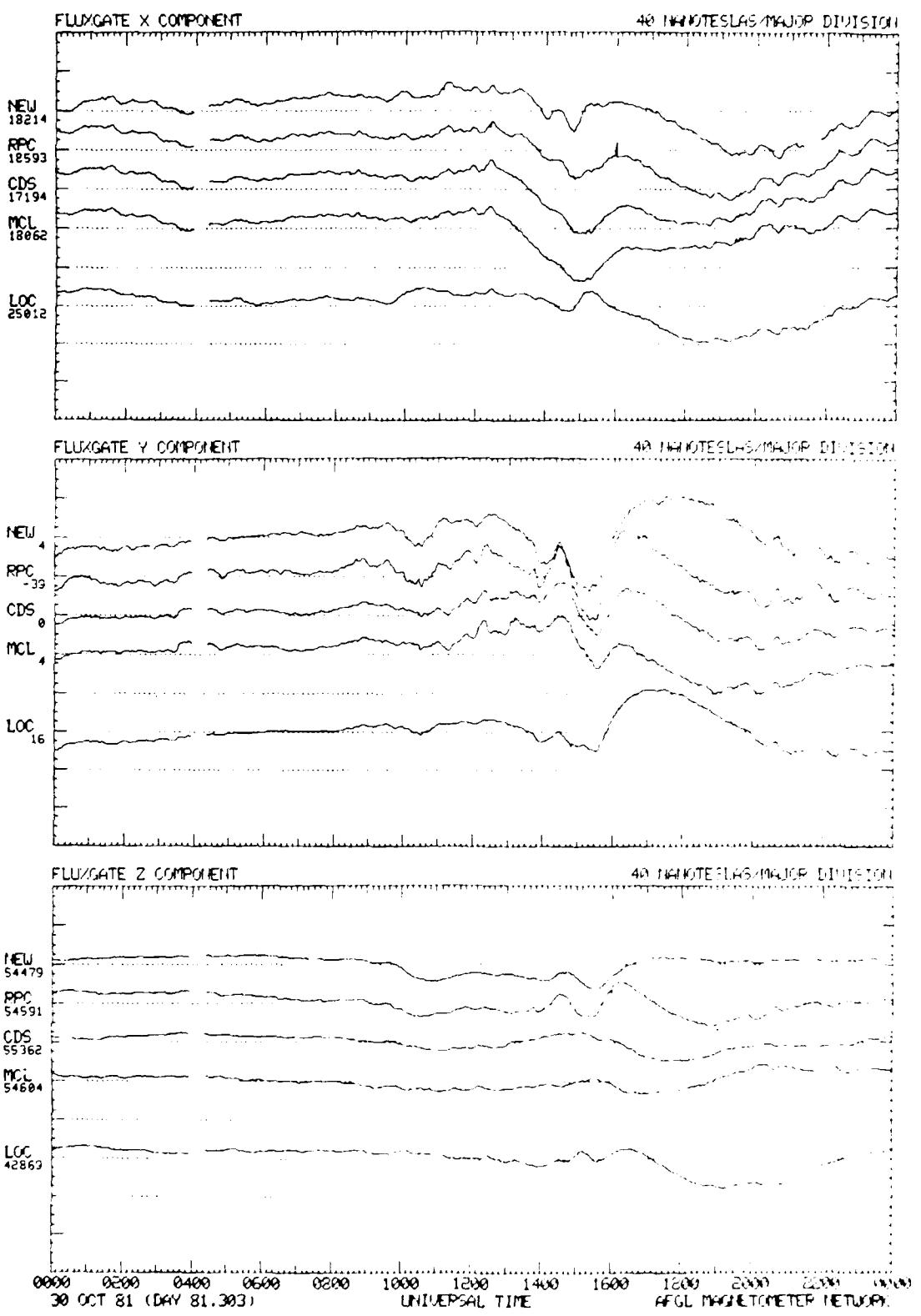
NEW
9
RPC
-36
CDS
2
MCL
1
LOC
22

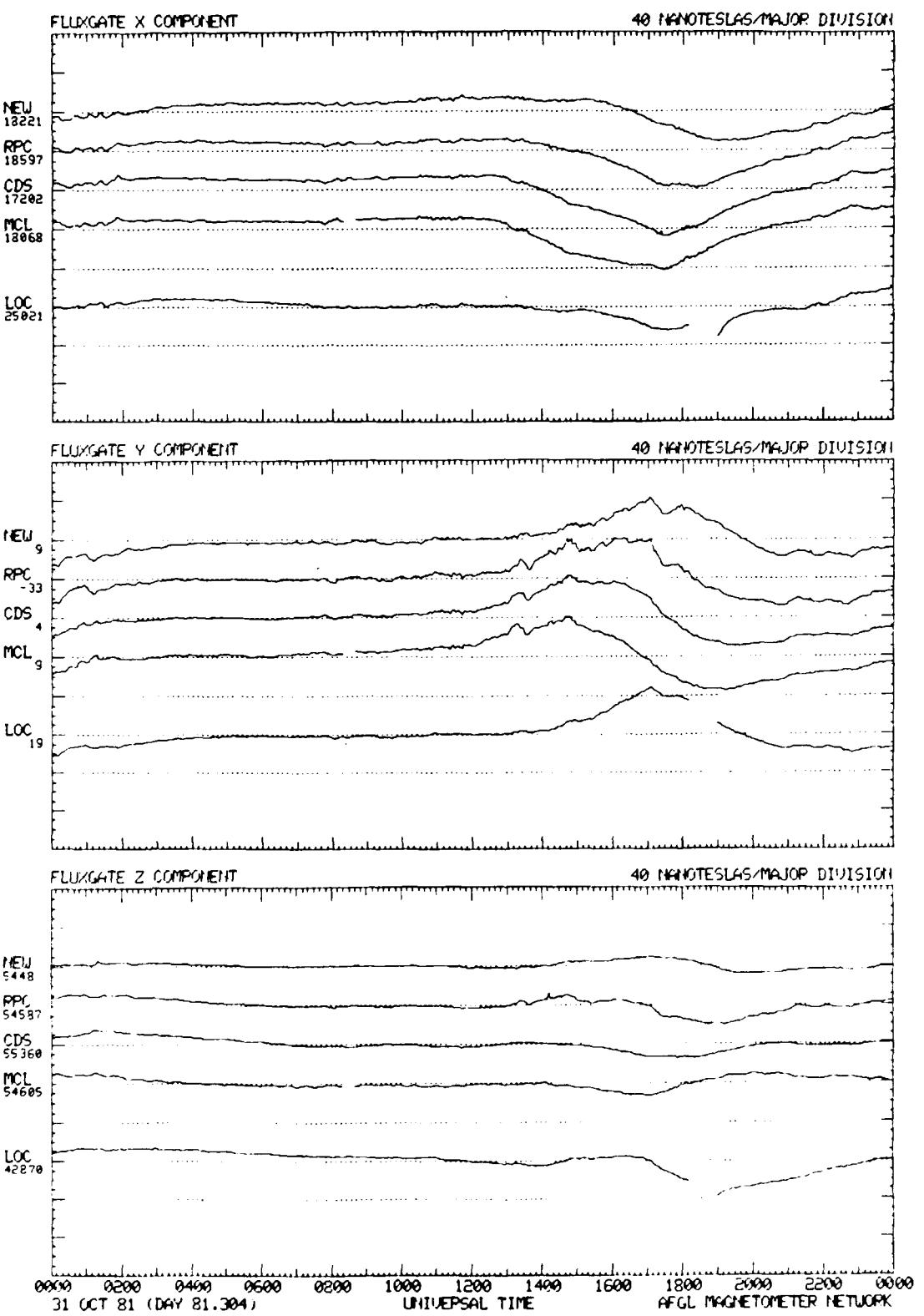
FLUXGATE Z COMPONENT

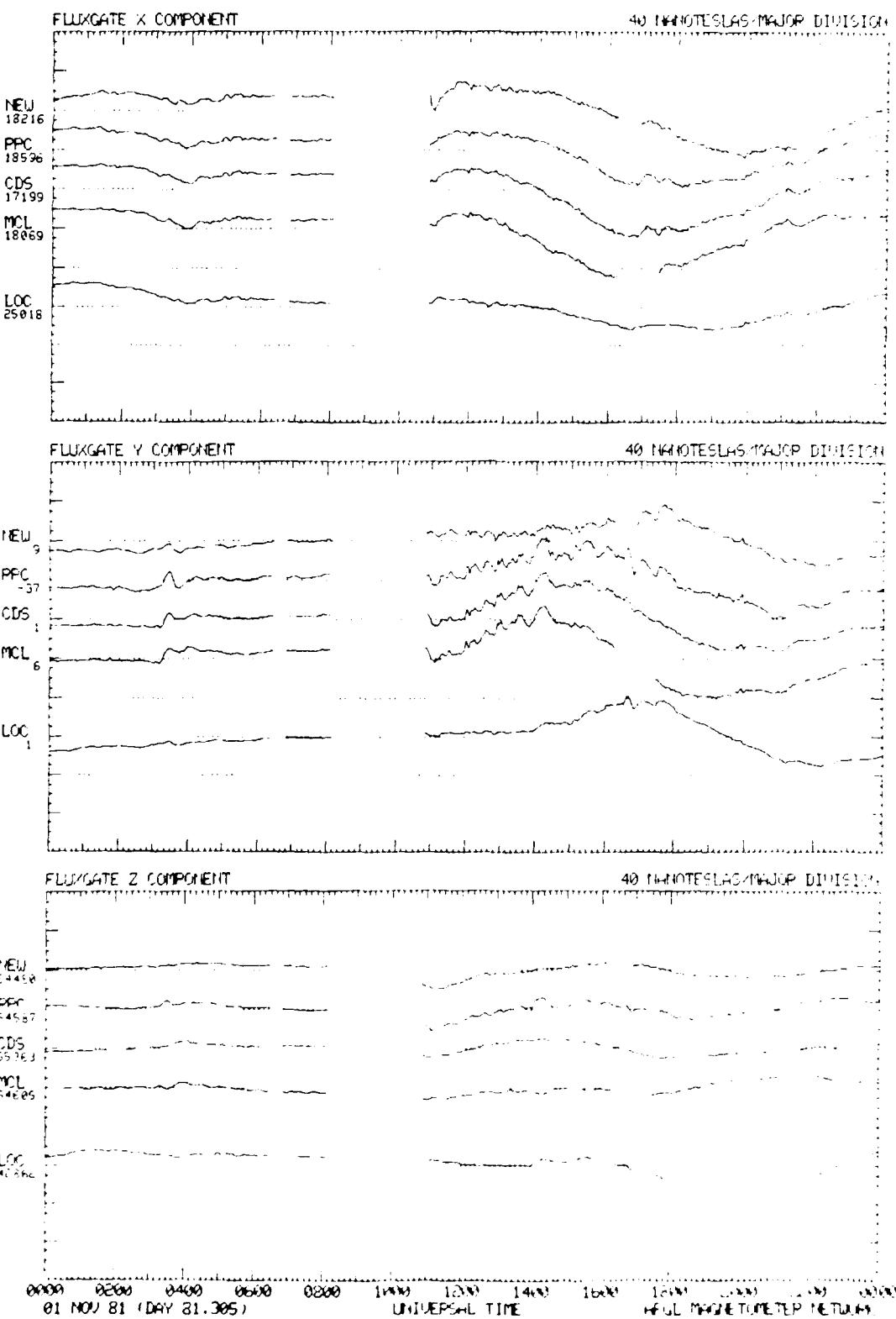
40 NANOTESLAS/MAJOR DIVISION

NEW
54495
RPC
54598
CDS
55365
MCL
54605
LOC
42270

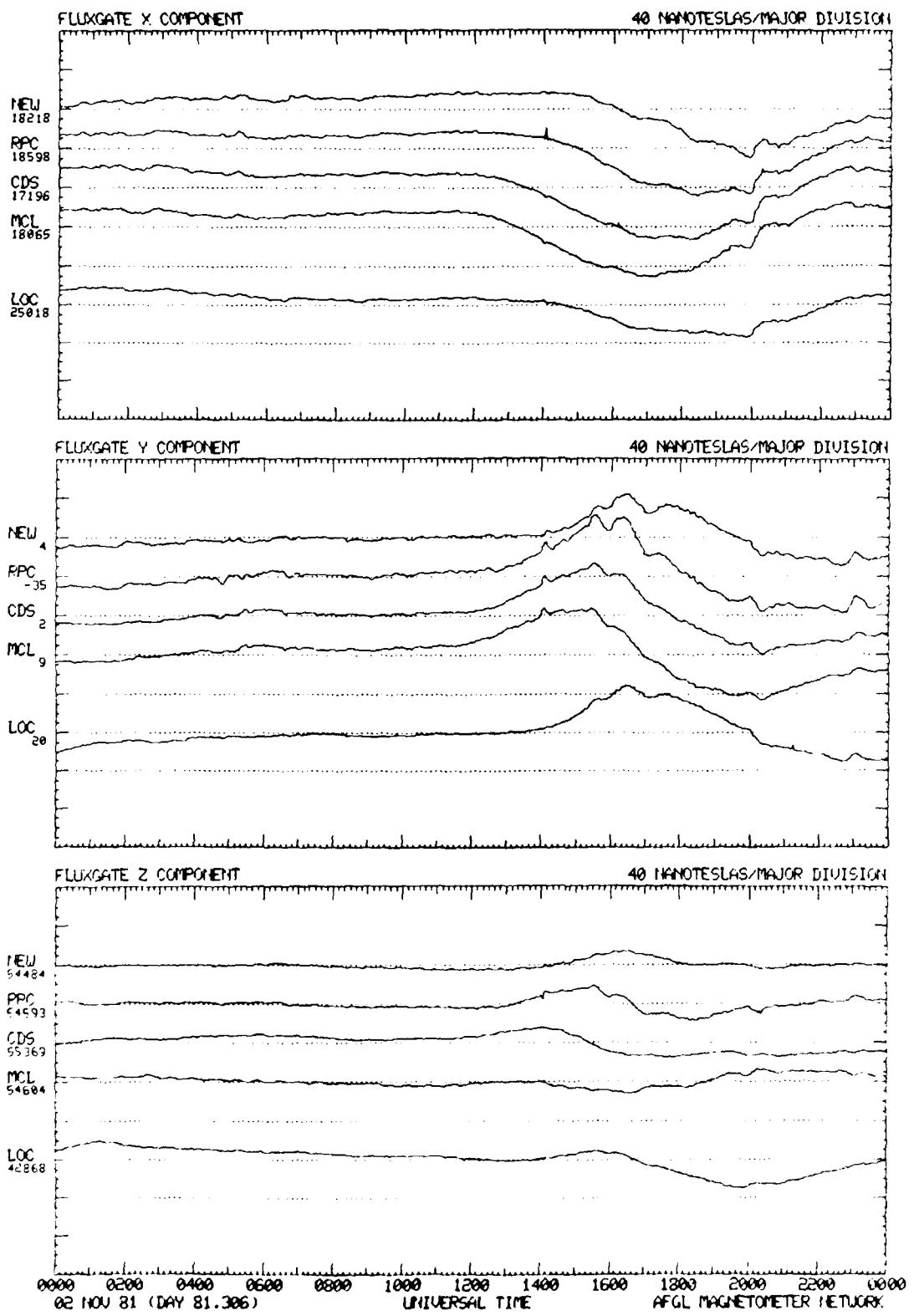
29 OCT 81 (DAY 21.302)

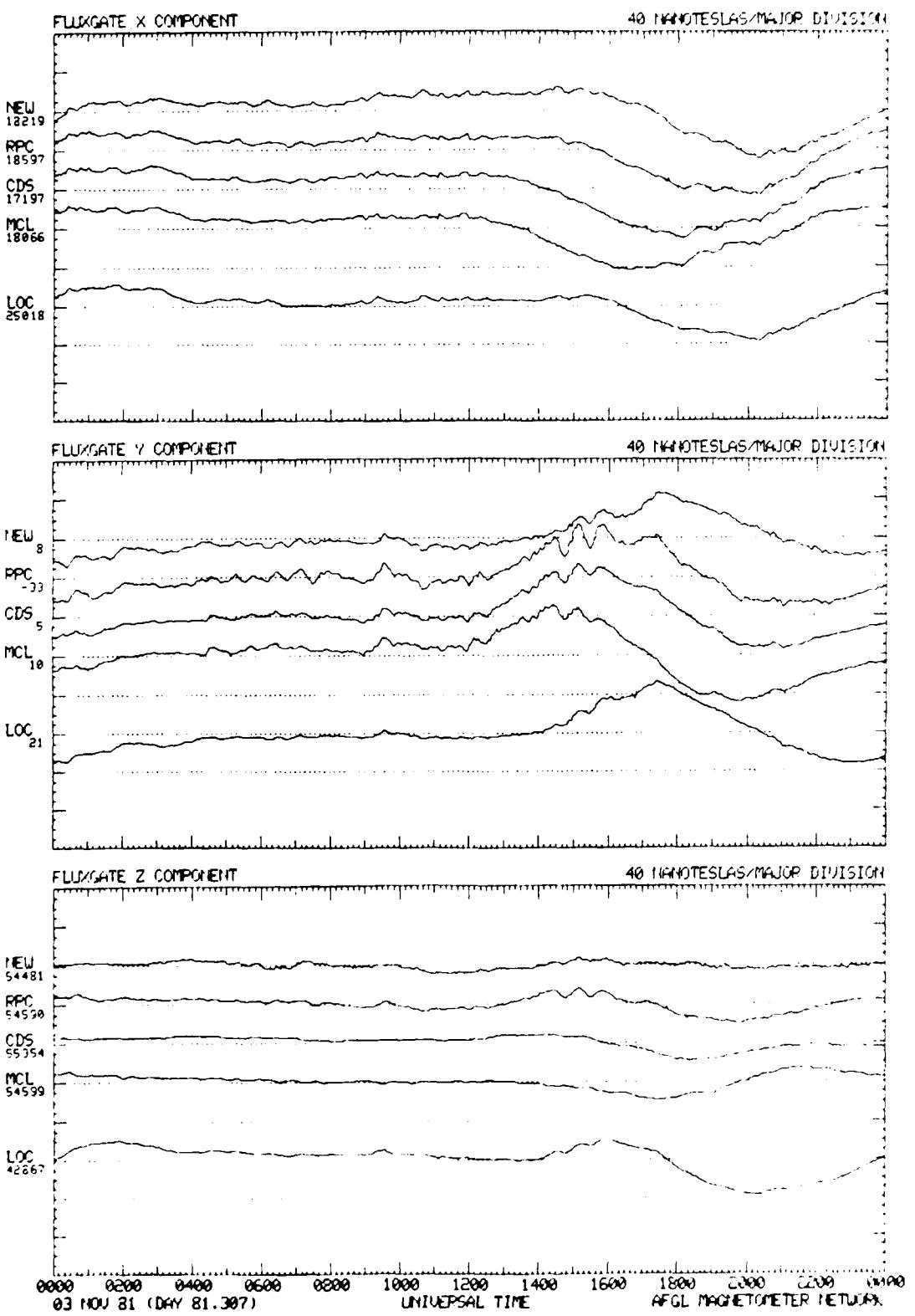






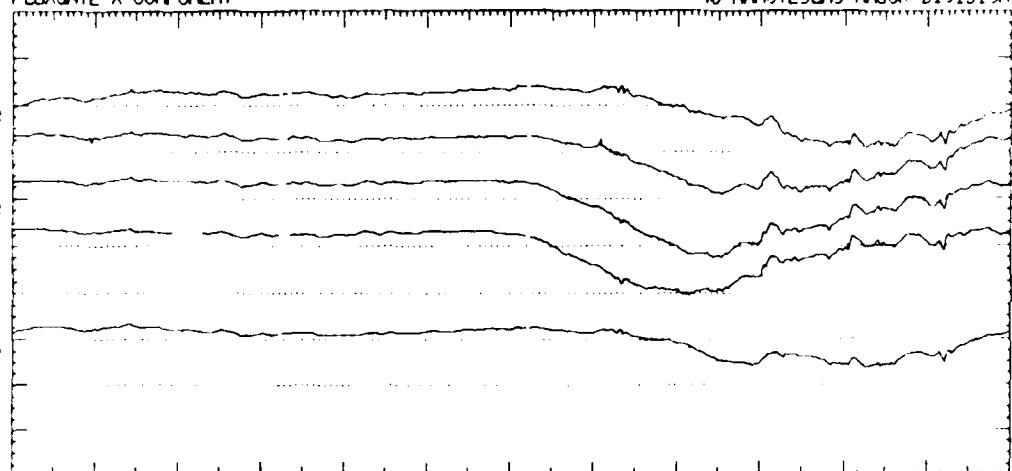
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 01 NOV 81 (DAY 31,305) UNIVERSAL TIME 401 MAGNETOMETER NETUH





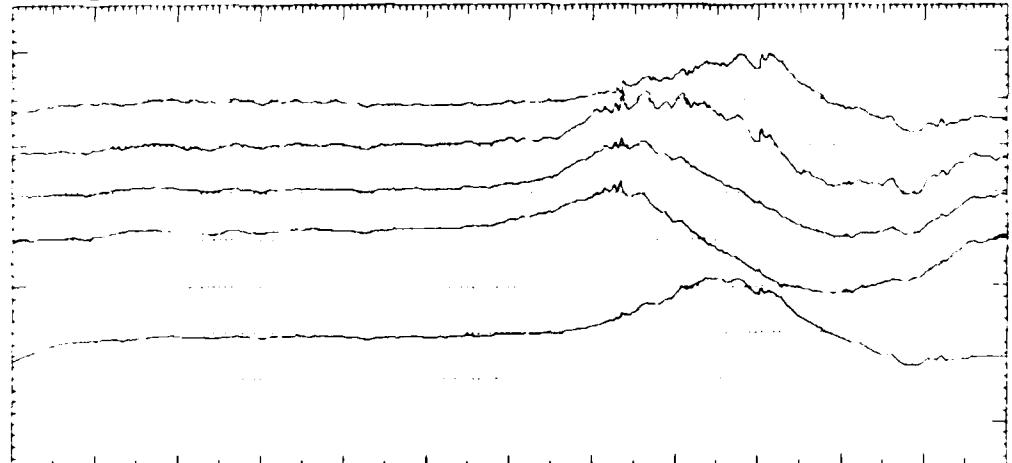
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18222
PPC
18601
CDS
17202
MCL
18071
LOC
25026

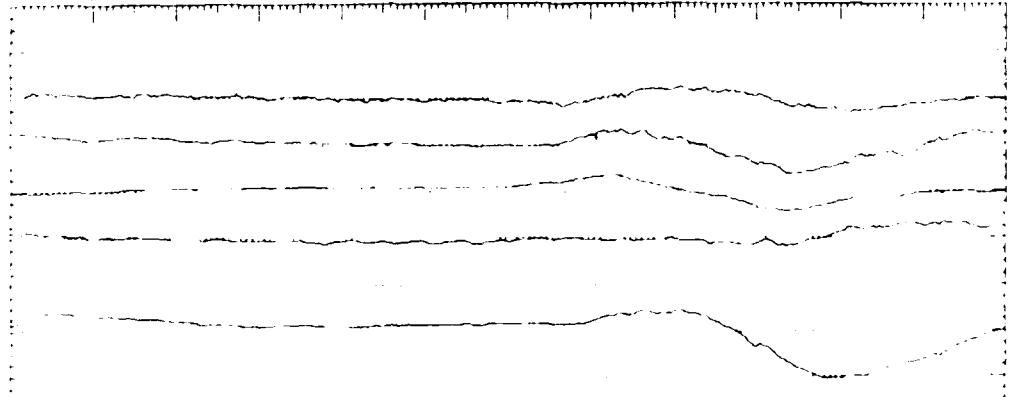
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

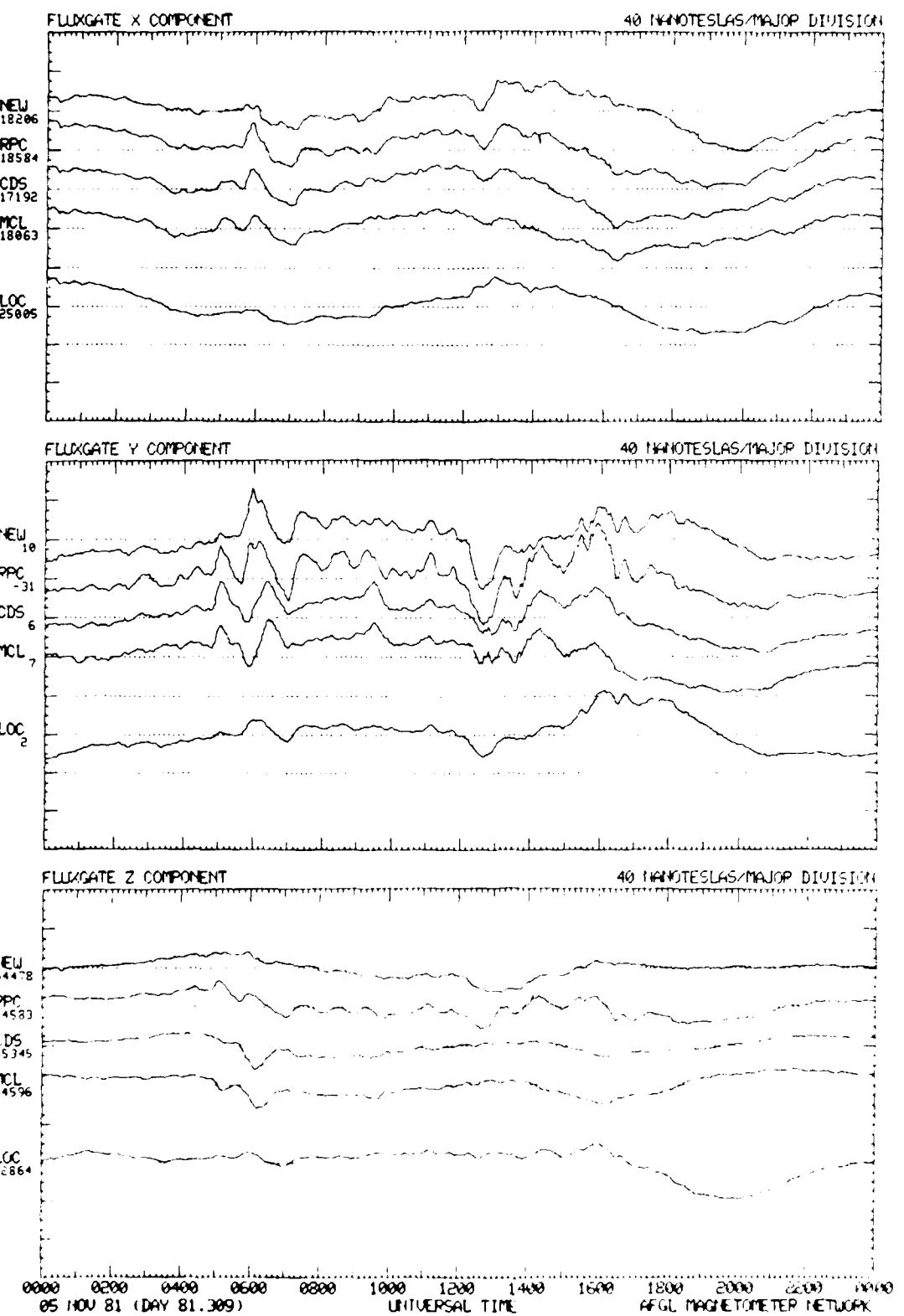
NEW
PPC
CDS
MCL
LOC

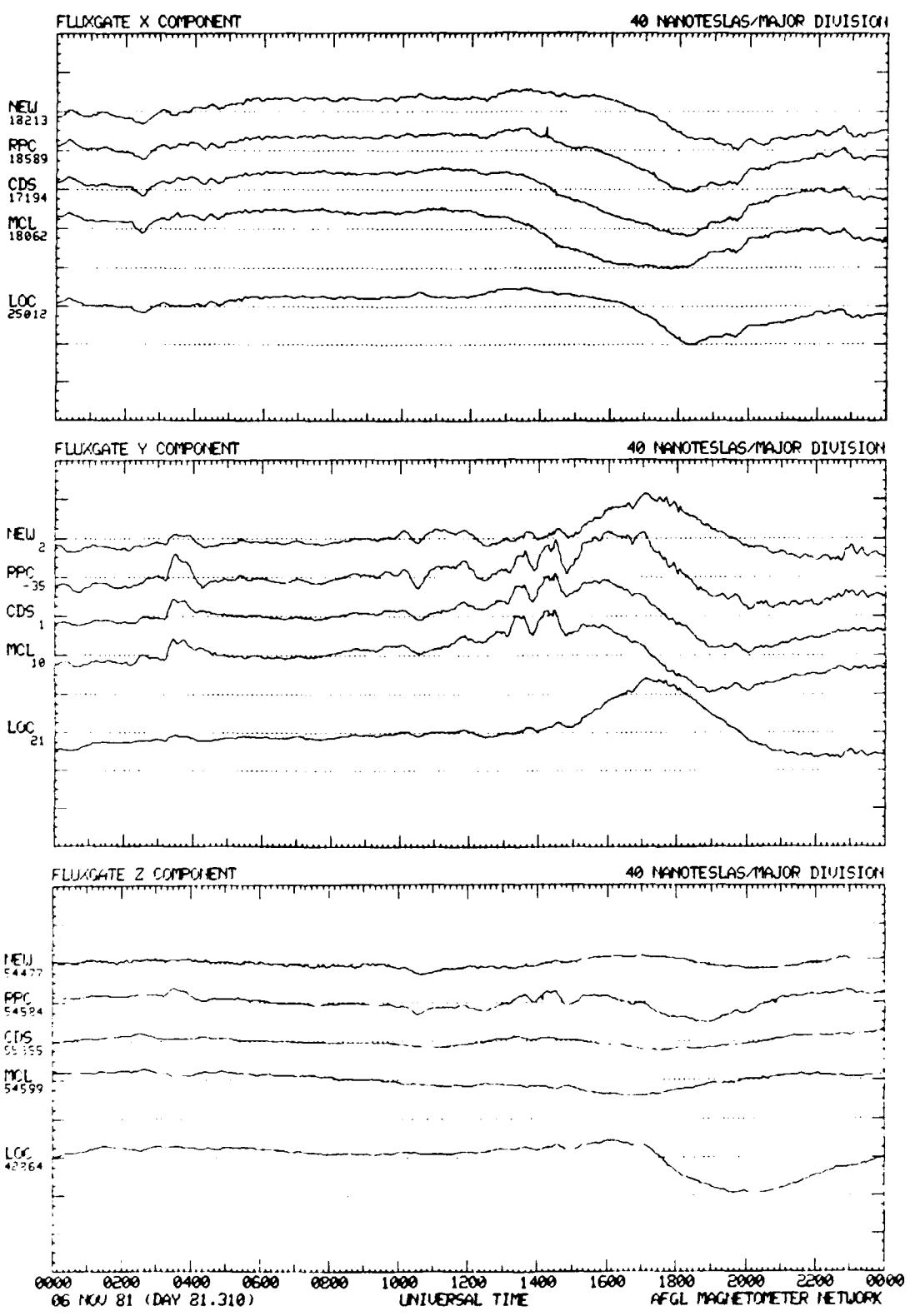
FLUXGATE Z COMPONENT

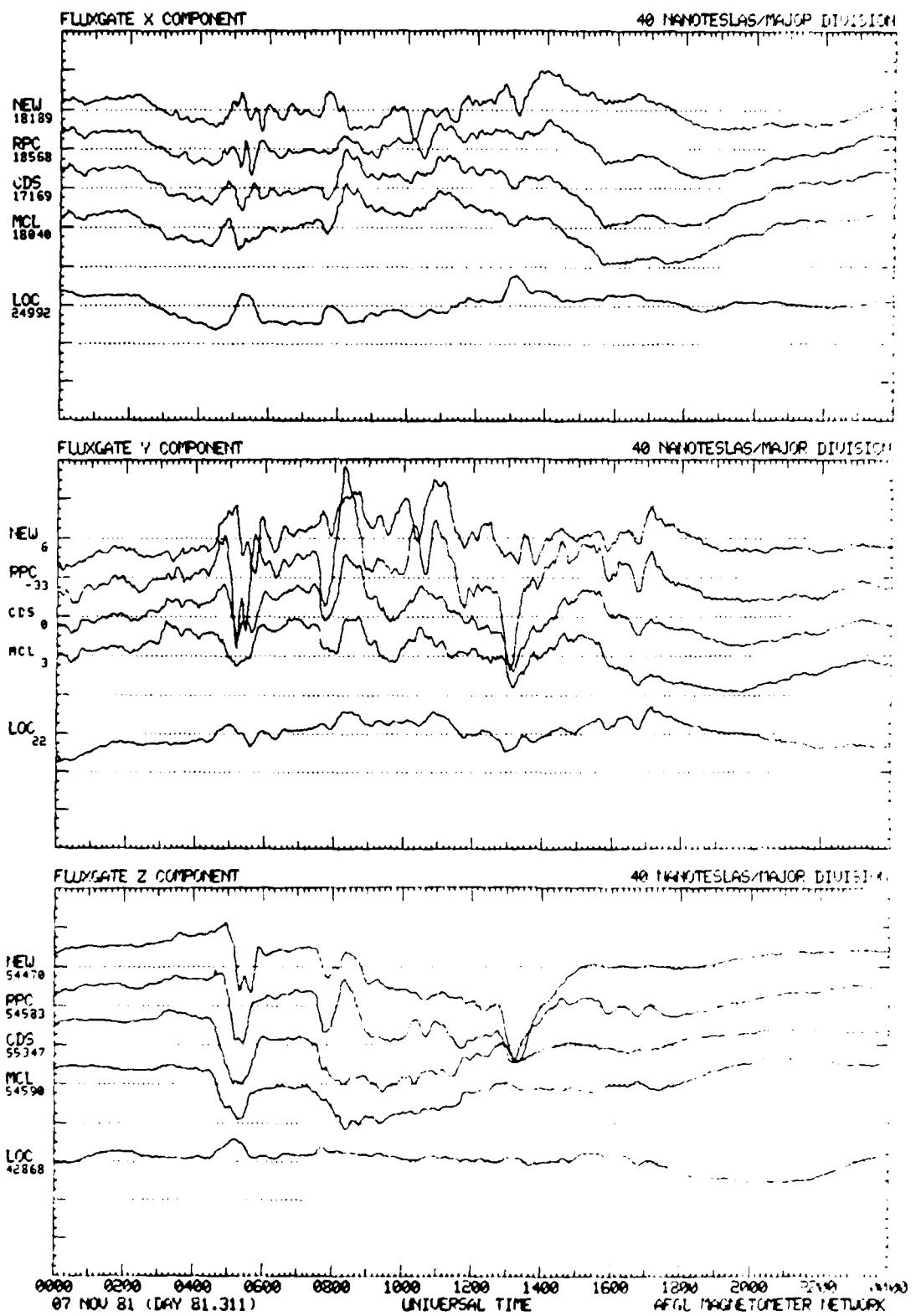
40 NANOTESLAS/MAJOR DIVISION

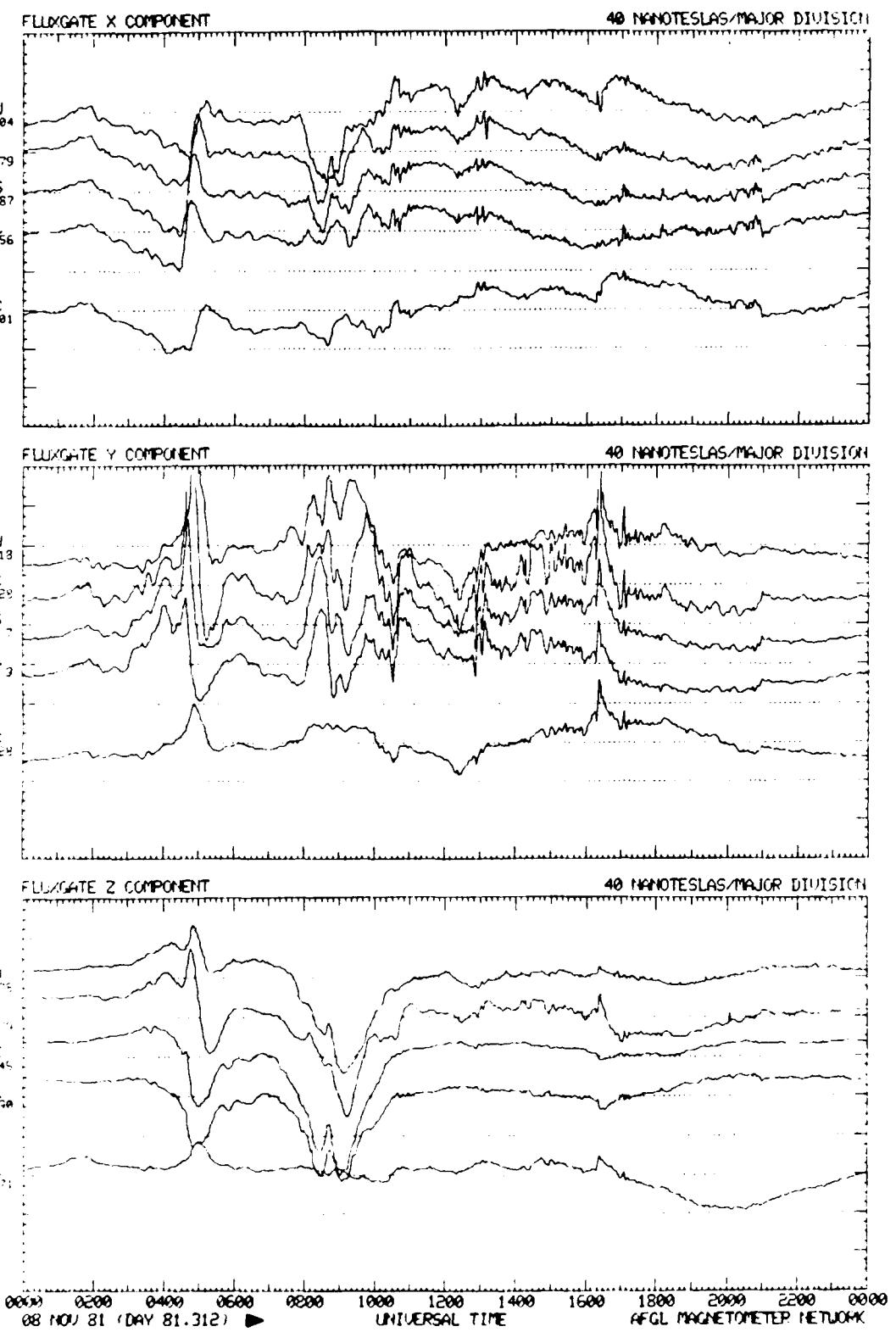
NEW
54428
PPC
14724
CDS
52104
MCL
54538
LOC
25024

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 NOV 81 (DAY 21.308) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18294
RPC
18578
CDS
17184
MCL
18055LOC
25002

FLUXGATE Y COMPONENT

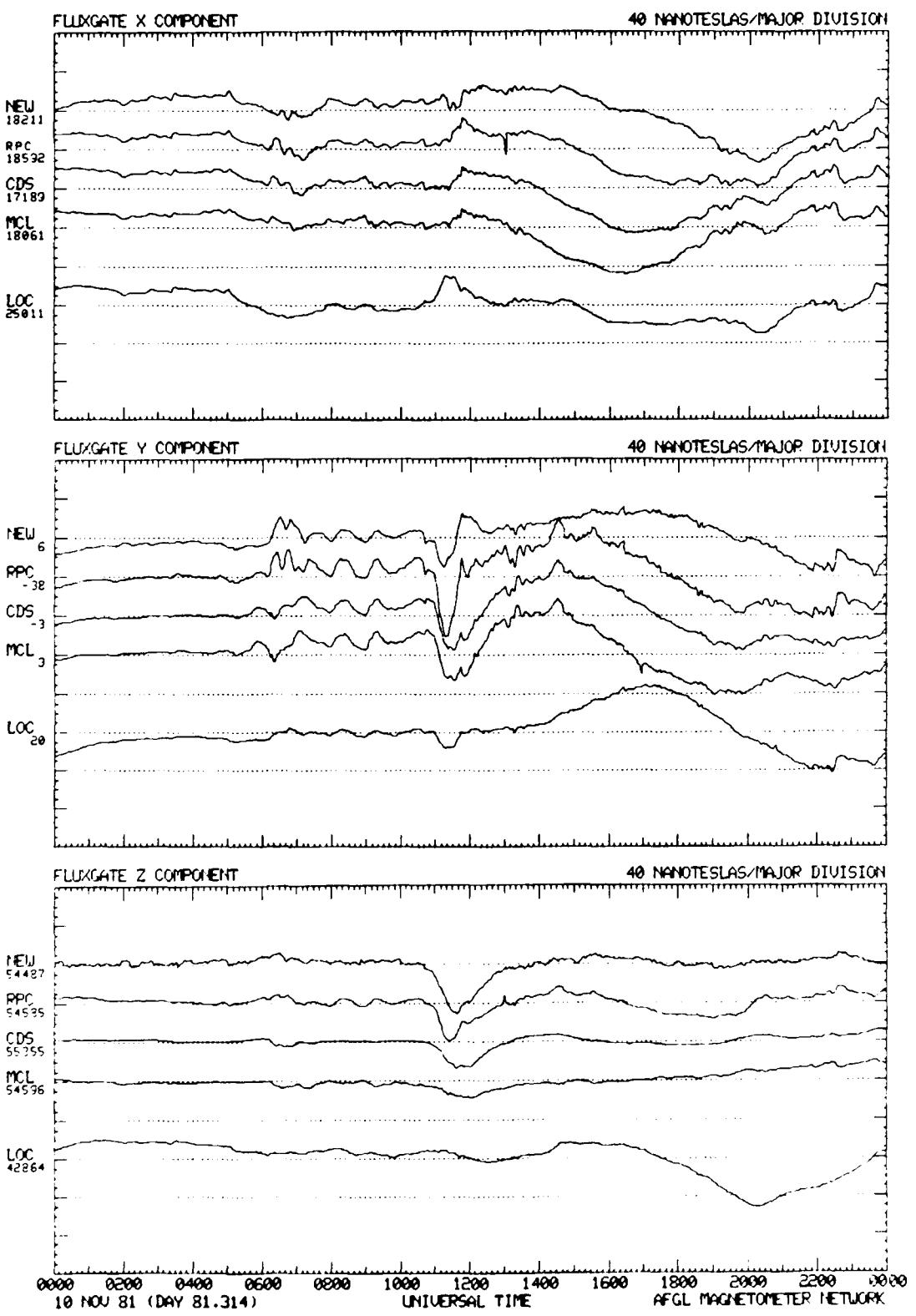
40 NANOTESLAS/MAJOR DIVISION

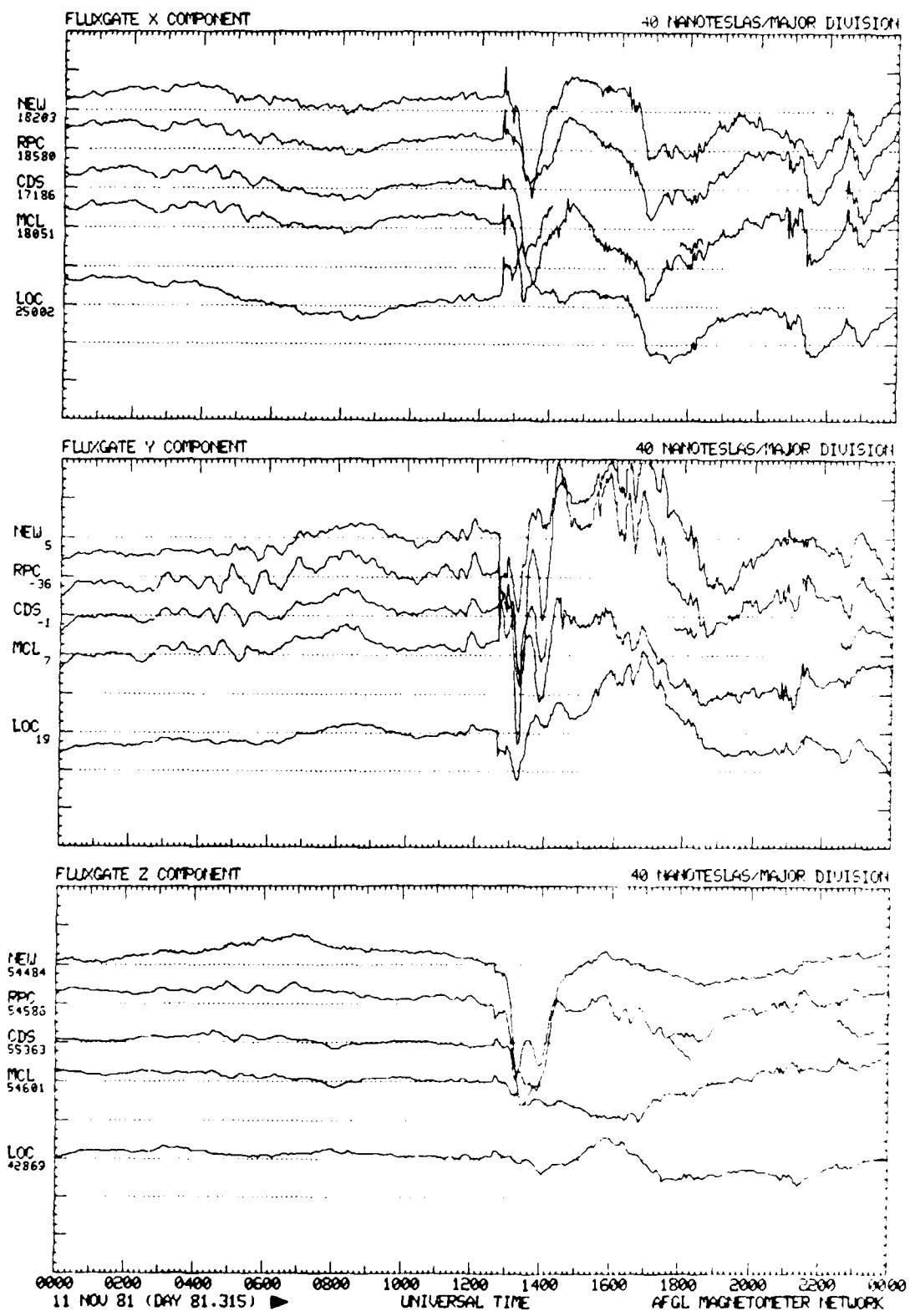
NEW
7
RPC
-37
CDS
-3
MCL
5LOC
20

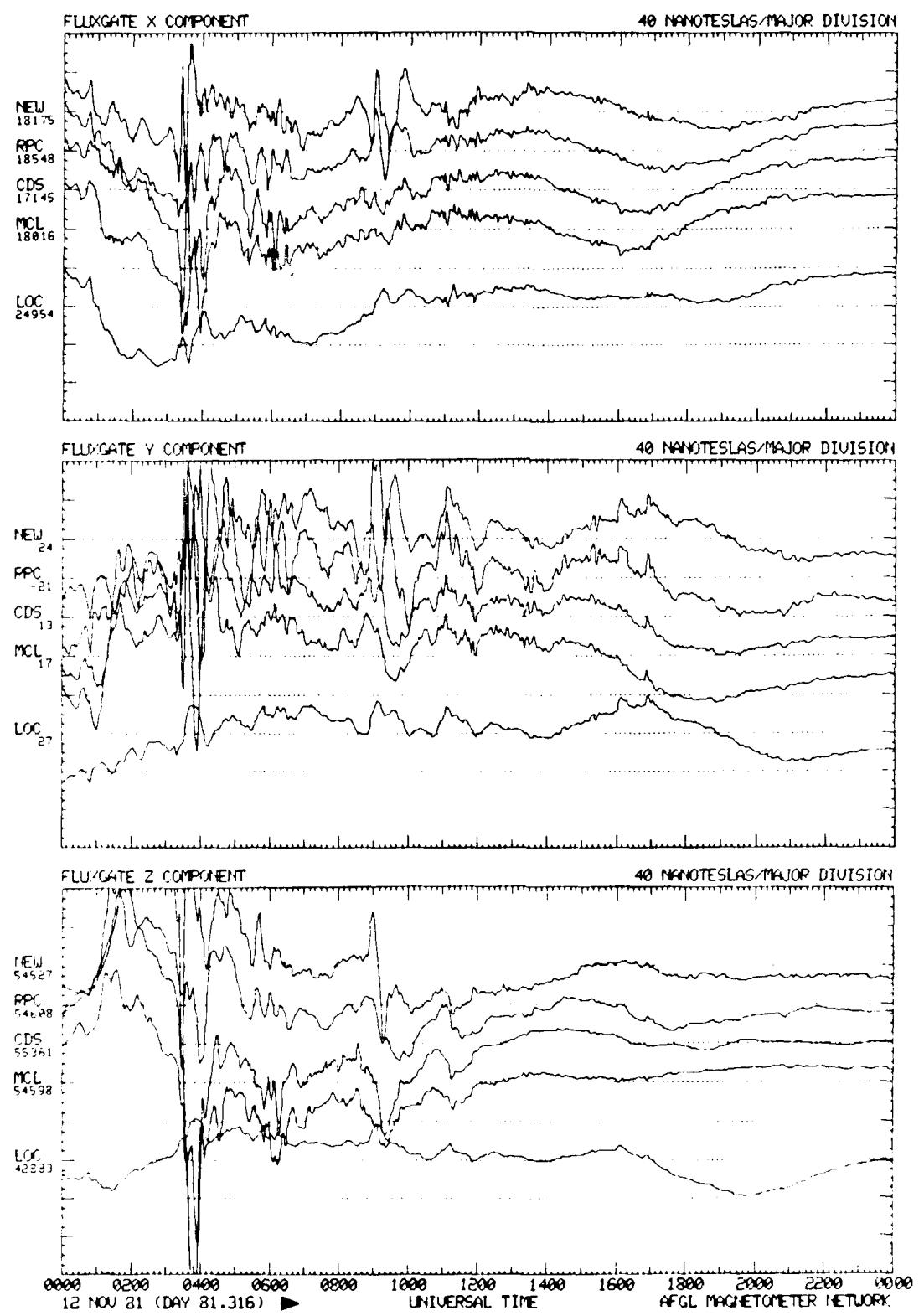
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54486
RPC
54583
CDS
55353
MCL
54598LOC
428660000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 NOV 81 (DAY 81.313) UNIVERSAL TIME AFGL MAGNETOMETER METRIC







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18191RPC
18572CDS
17168MCL
18641LOC
24985

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12RPC
-36CDS
-4

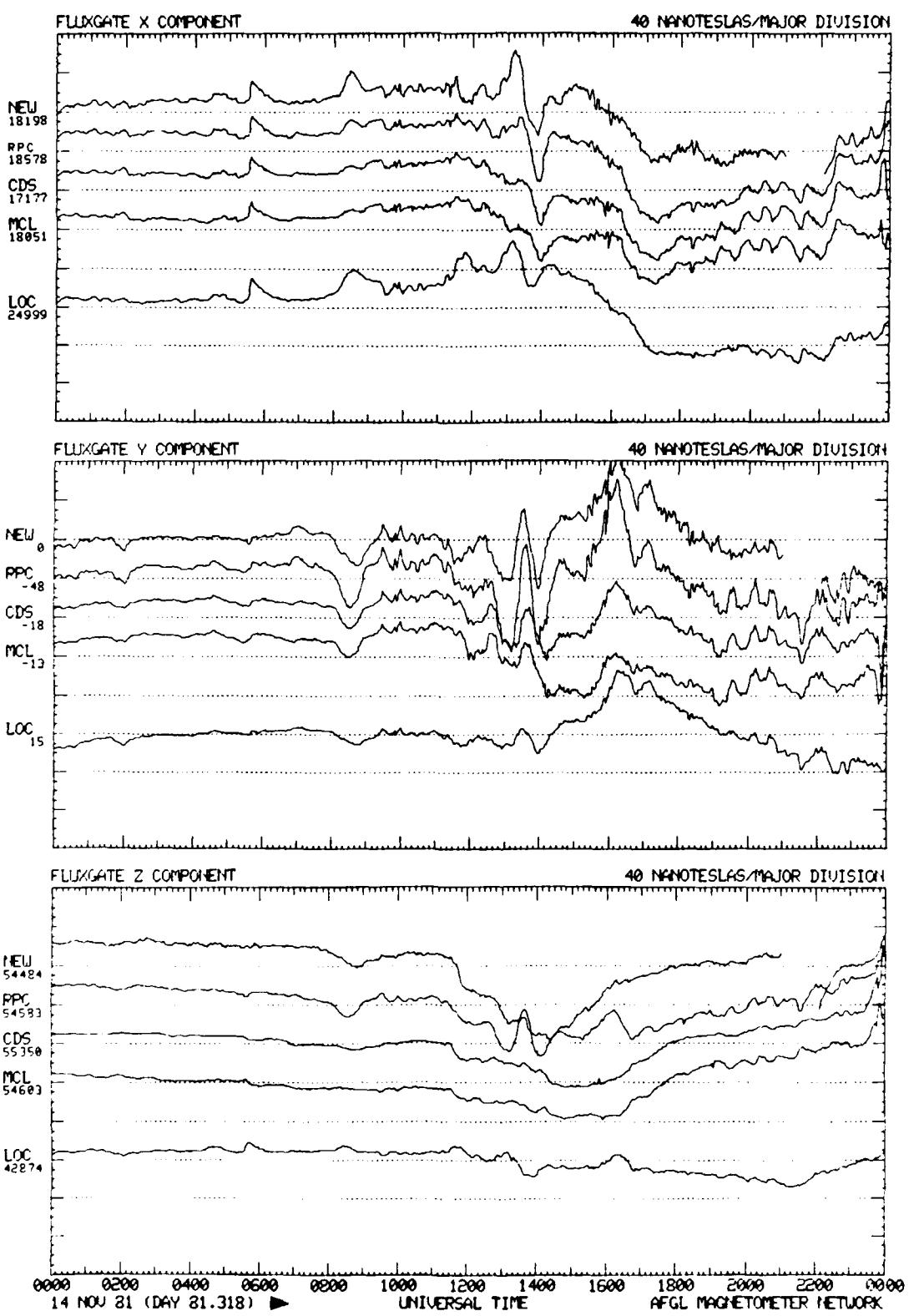
MCL

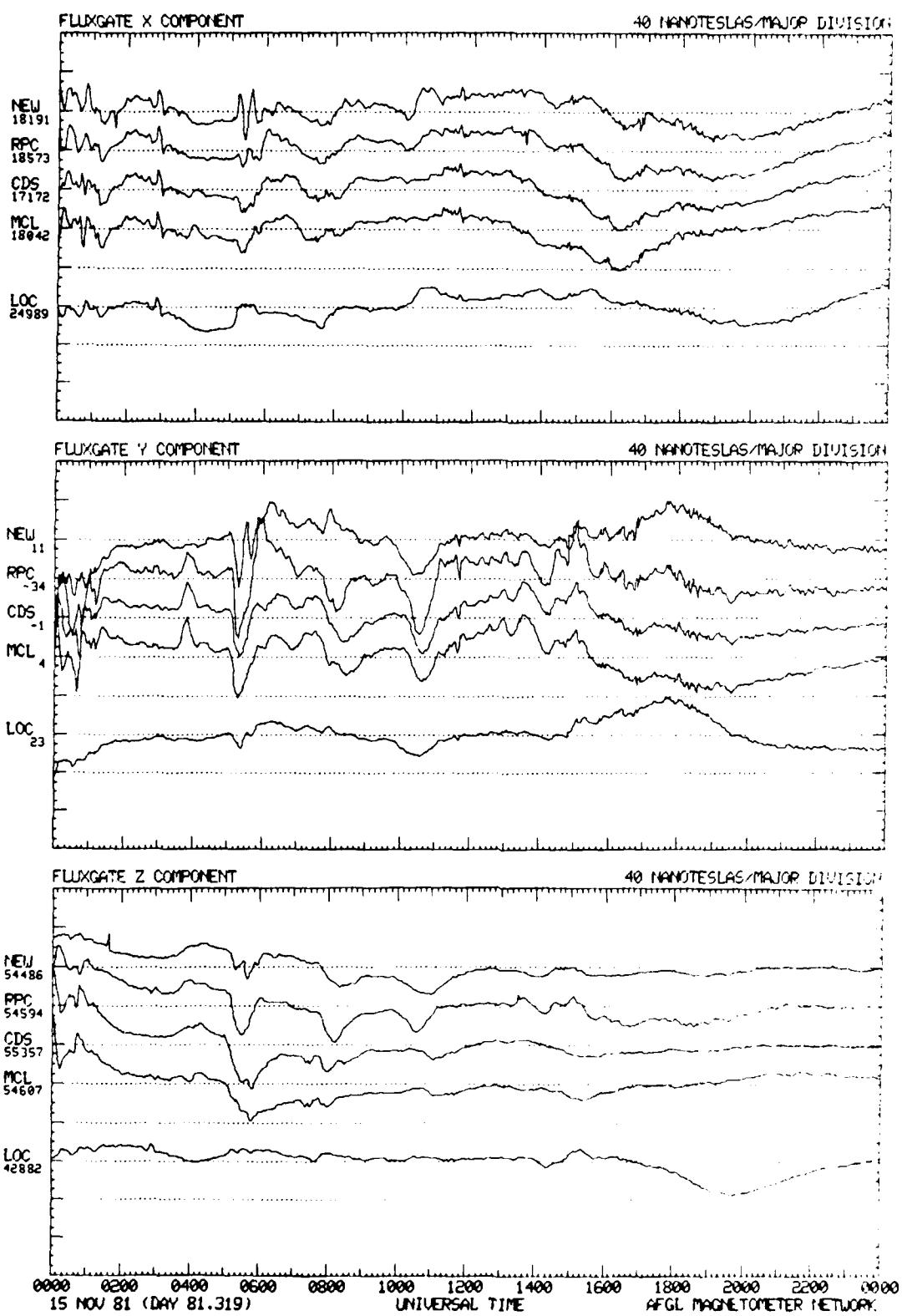
LOC
23

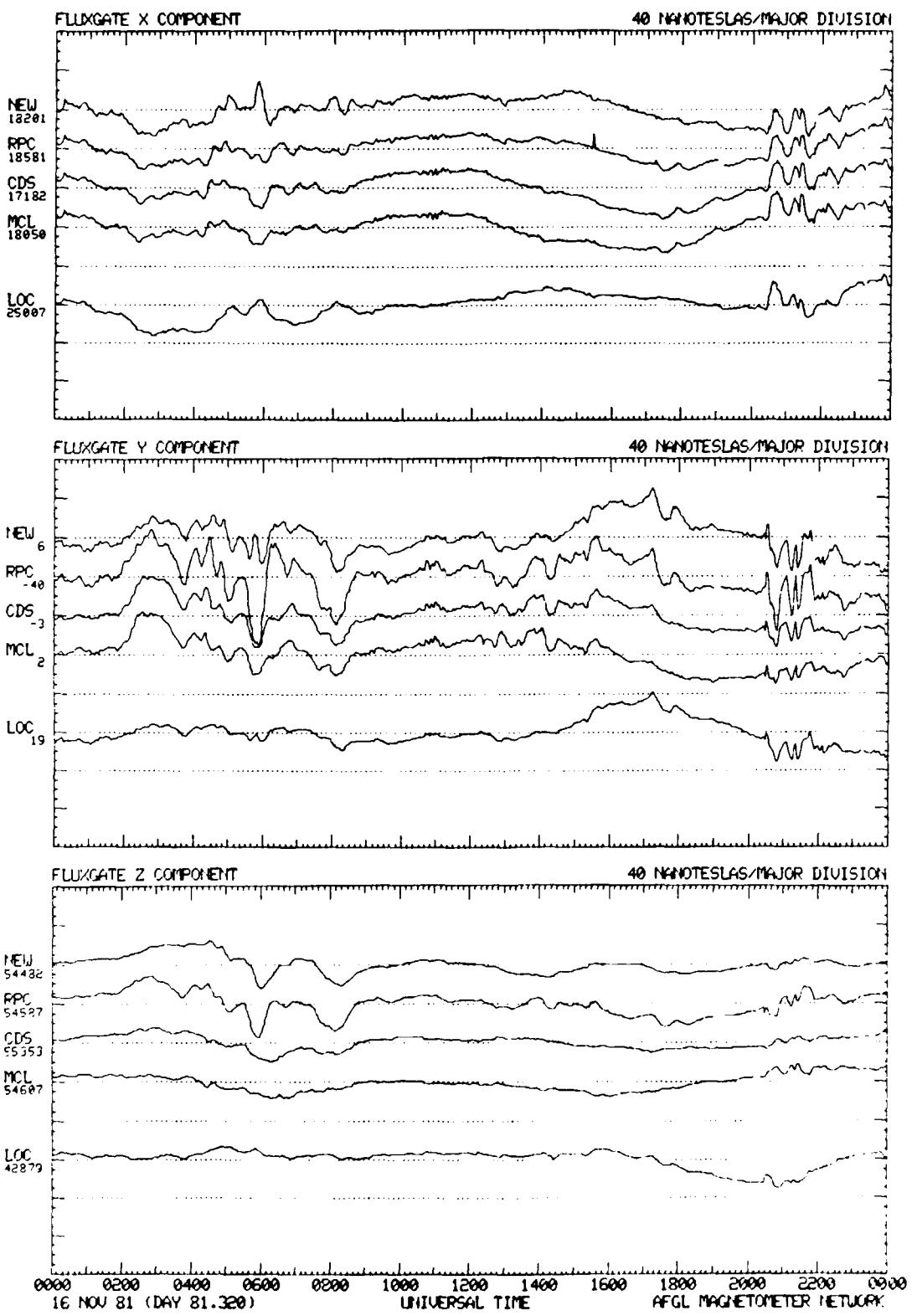
FLUXGATE Z COMPONENT

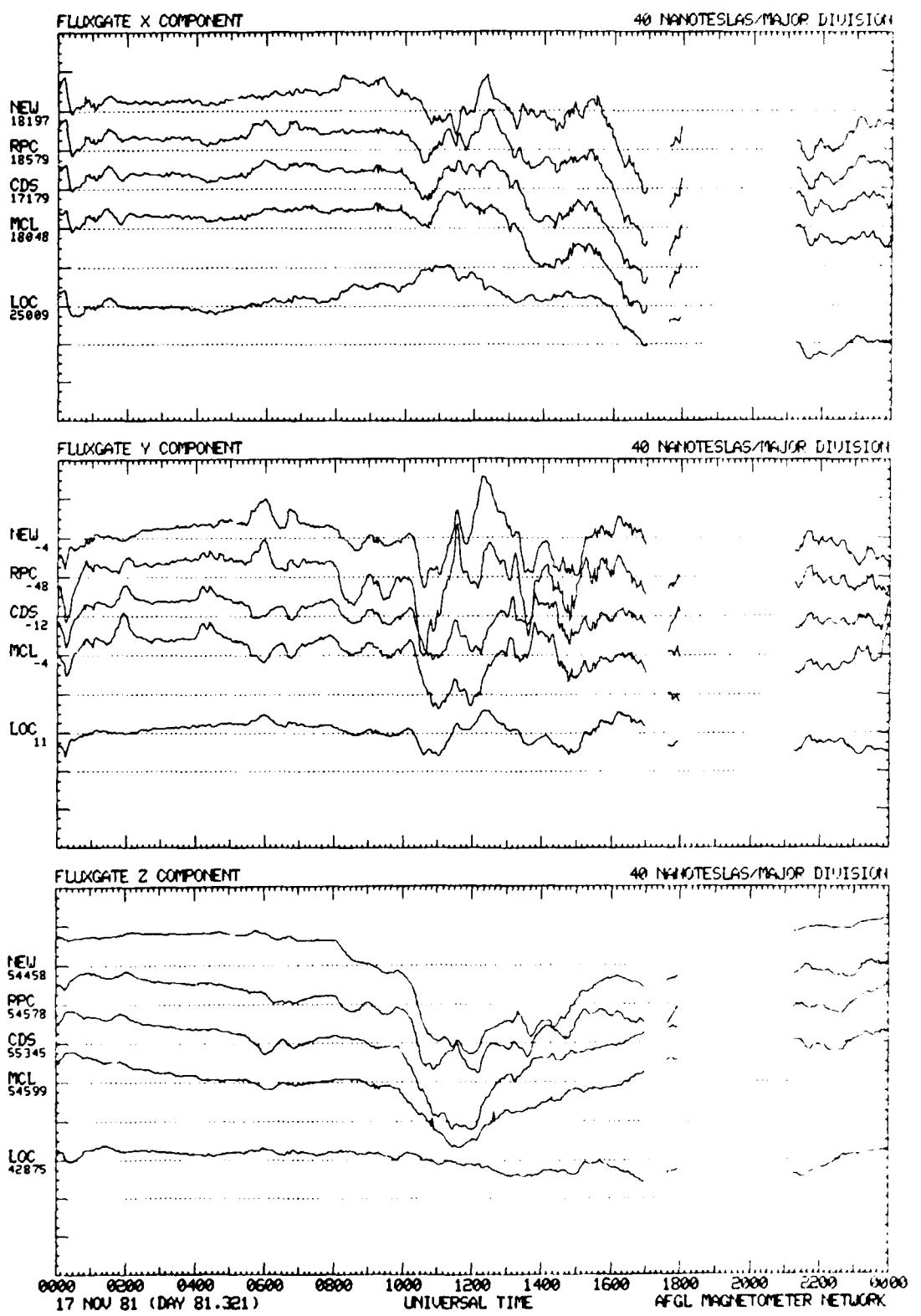
40 NANOTESLAS/MAJOR DIVISION

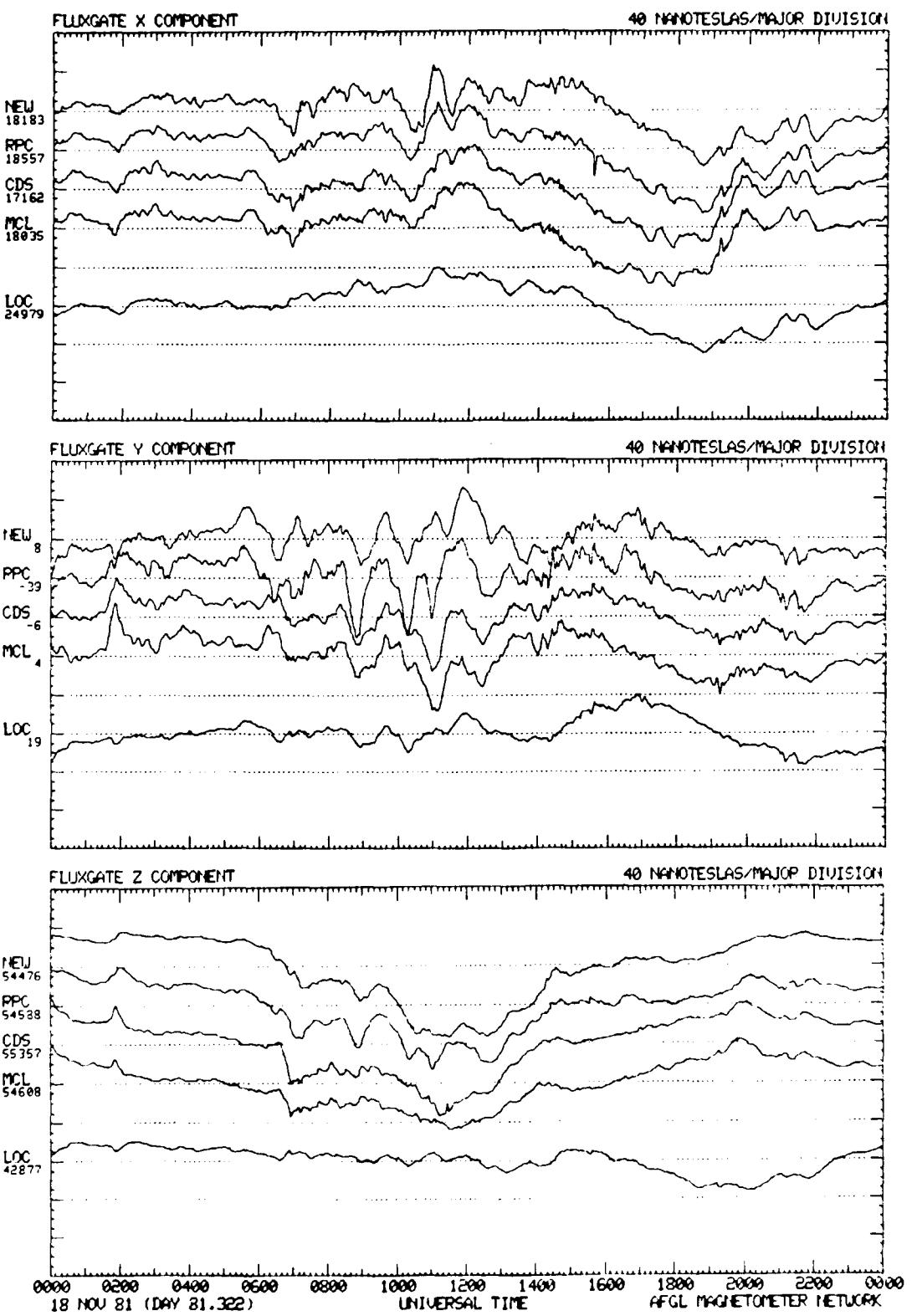
NEW
54513RPC
54599CDS
55360MCL
54687LOC
428780000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 NOV 81 (DAY 81.317) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK











FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18190
RPC
18559
CDS
17168
MCL
18040

LOC
24985

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
3
PPC
-39
CDS
-3
MCL
8

LOC
17

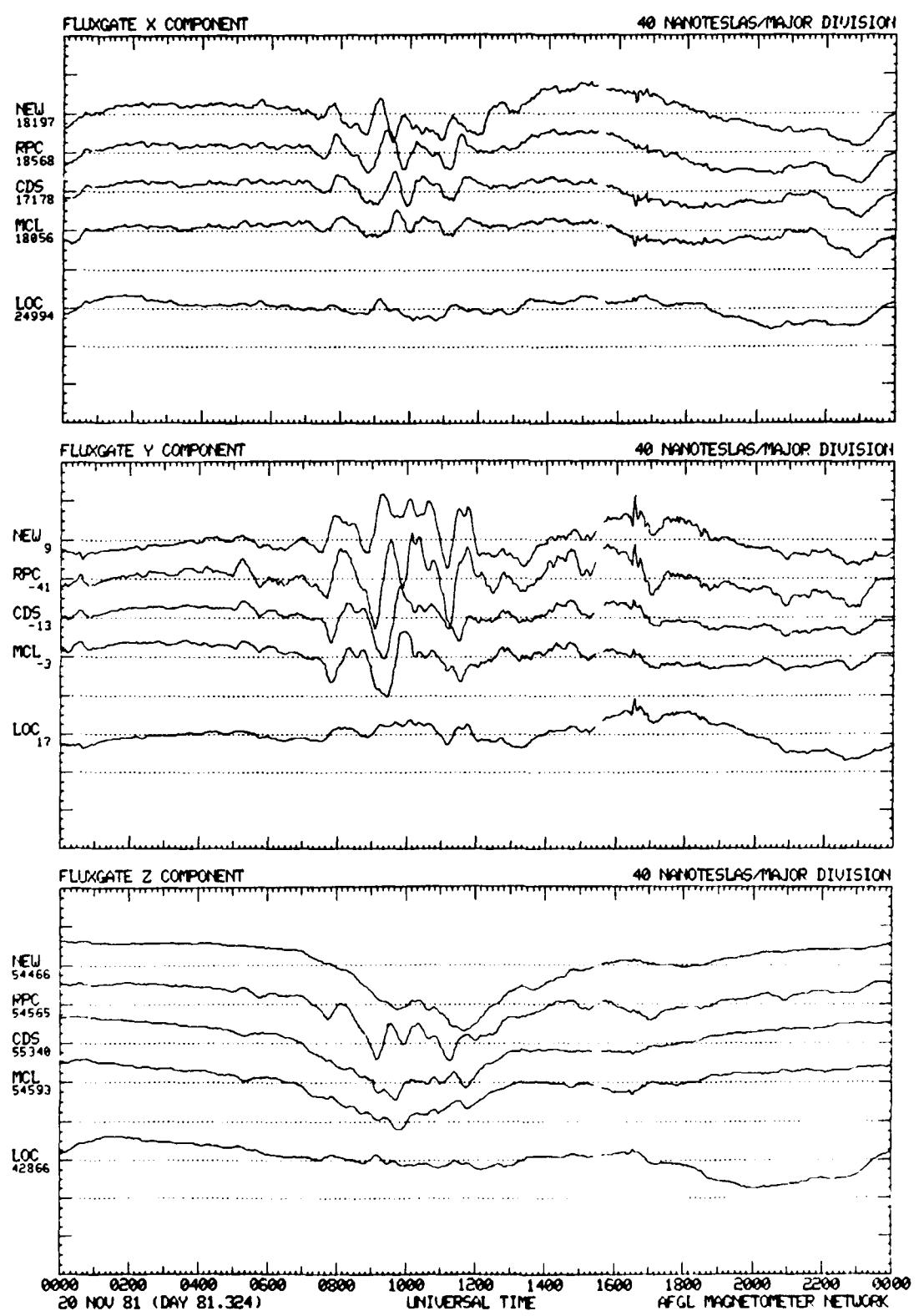
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54426
PPC
54537
CDS
55361
MCL
54607

LOC
42876

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 NOV 81 (DAY 81,323) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18201
RPC
18570
CDS
17174
MCL
18950LOC
25003

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
5
RPC
-41
CDS
-12
MCL
4LOC
16

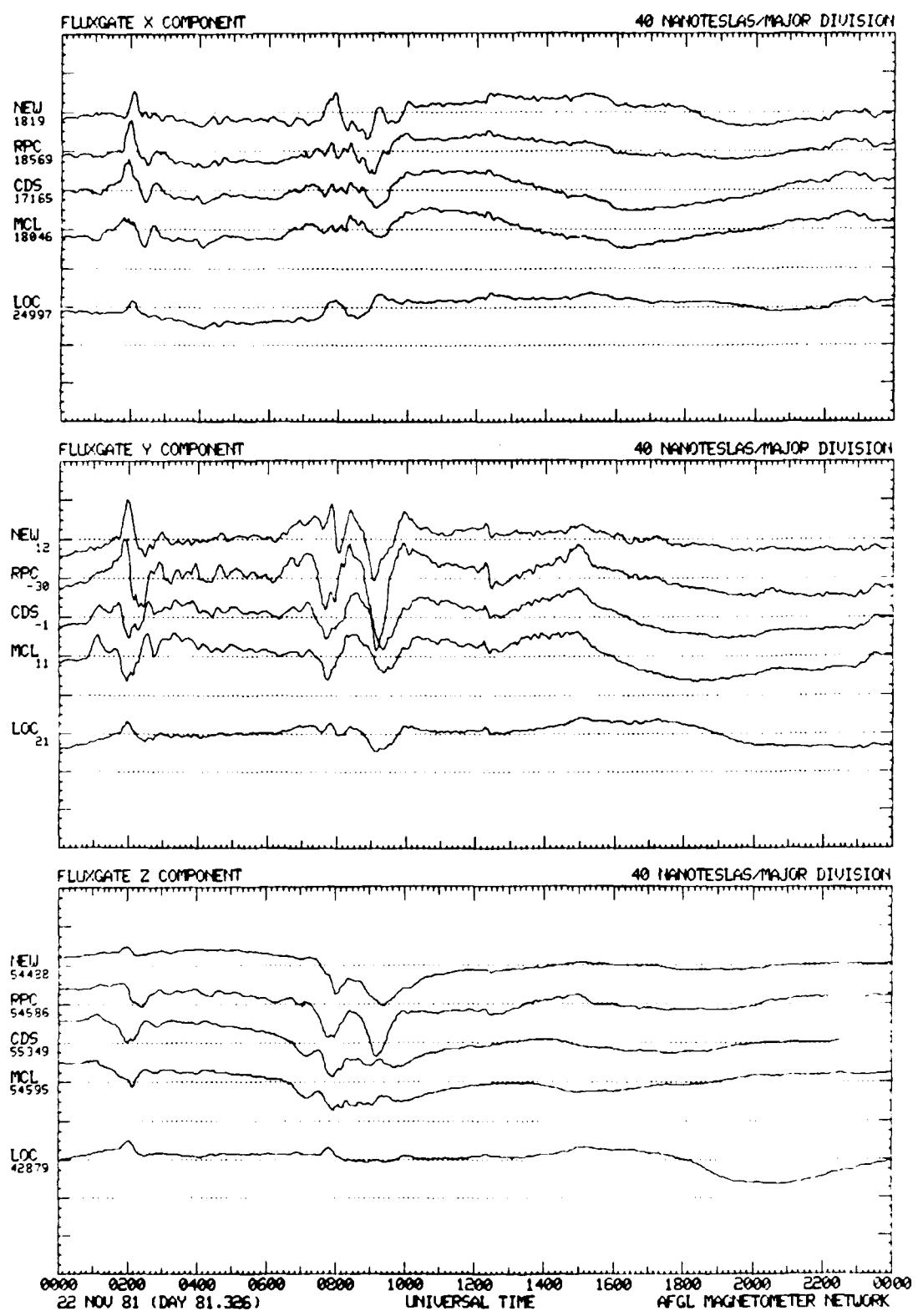
FLUXGATE Z COMPONENT

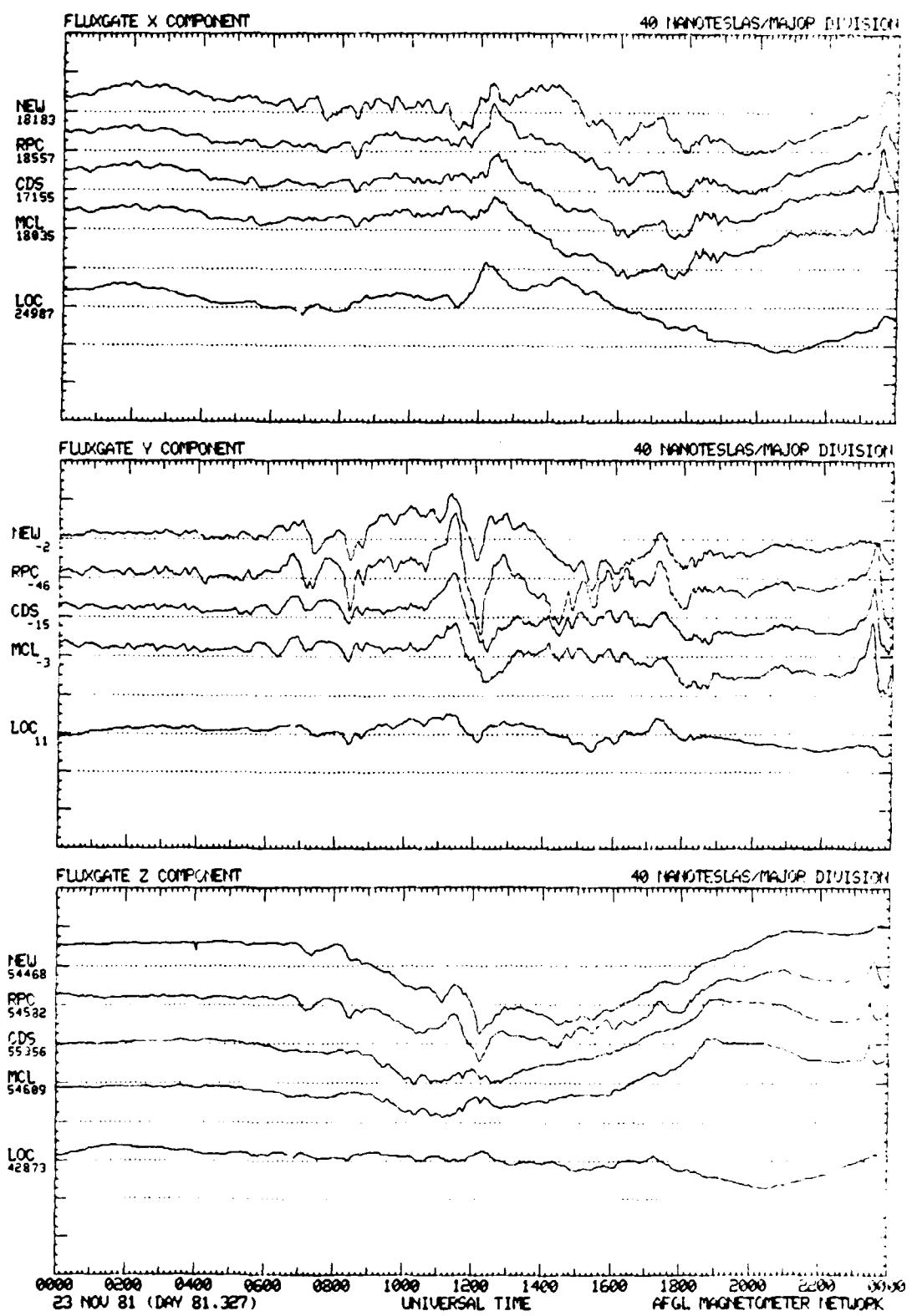
40 NANOTESLAS/MAJOR DIVISION

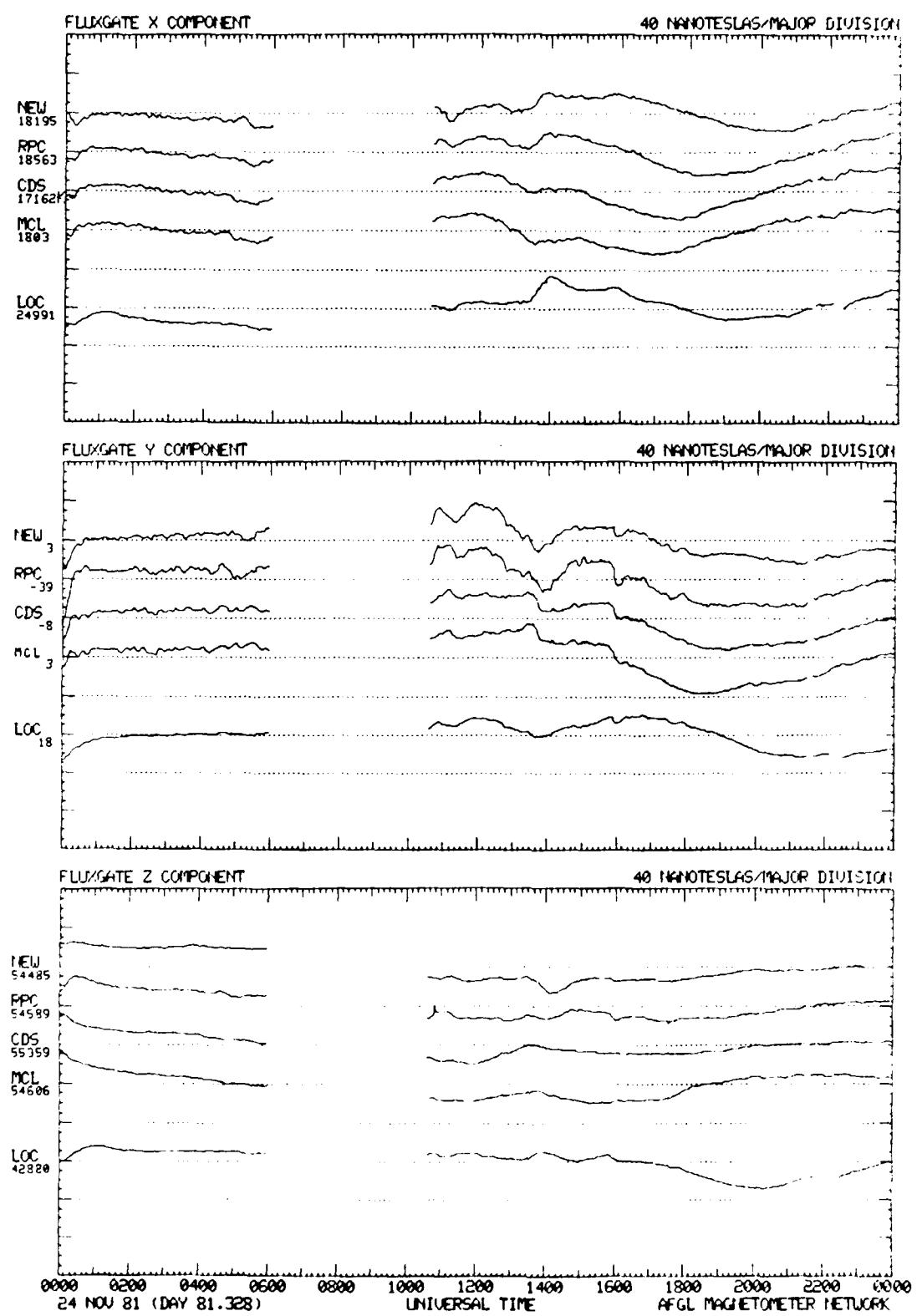
NEU
54478
RPC
54575
CDS
55352
MCL
54598LOC
428710000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 NOV 81 (DAY 81.325)

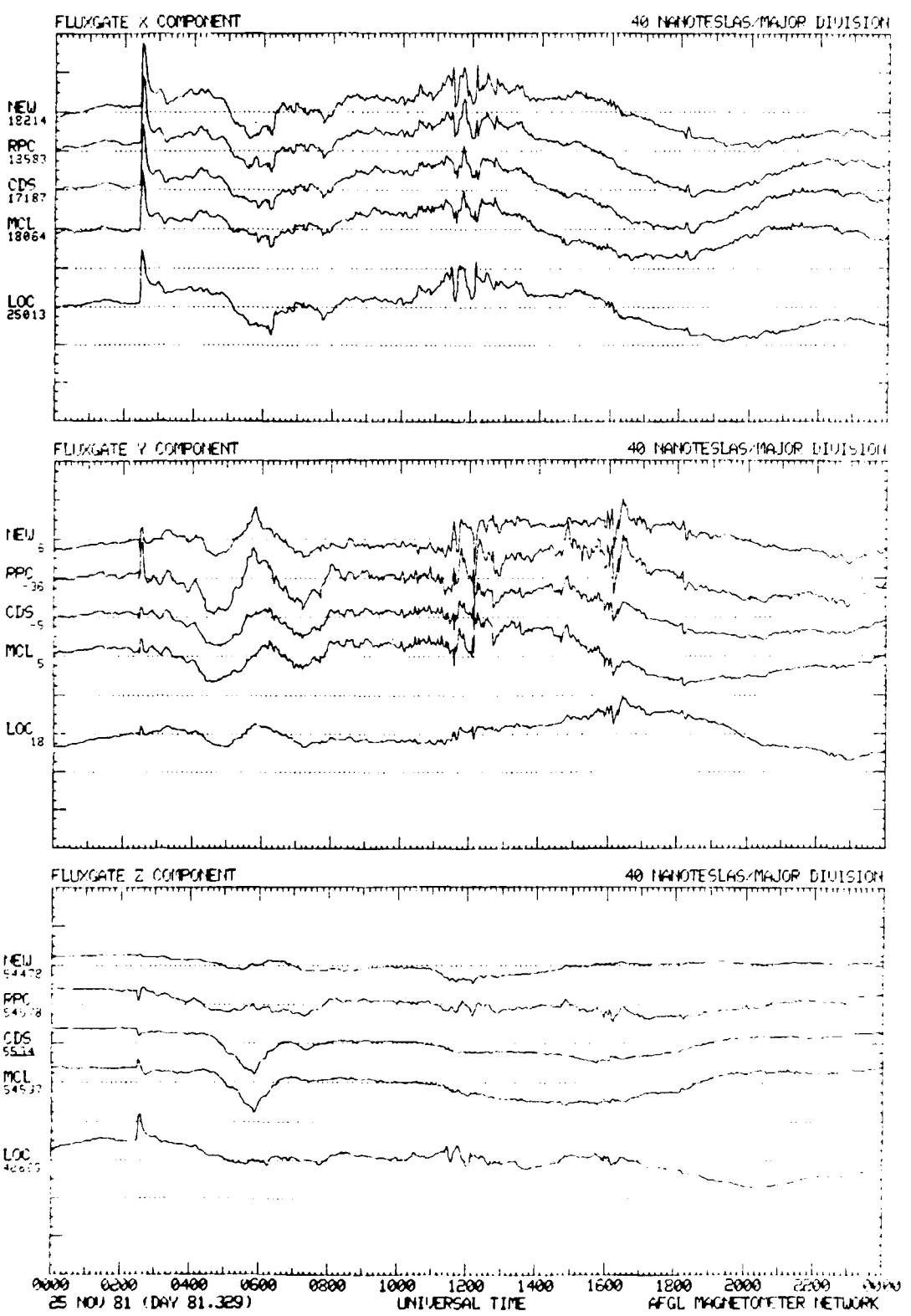
UNIVERSAL TIME

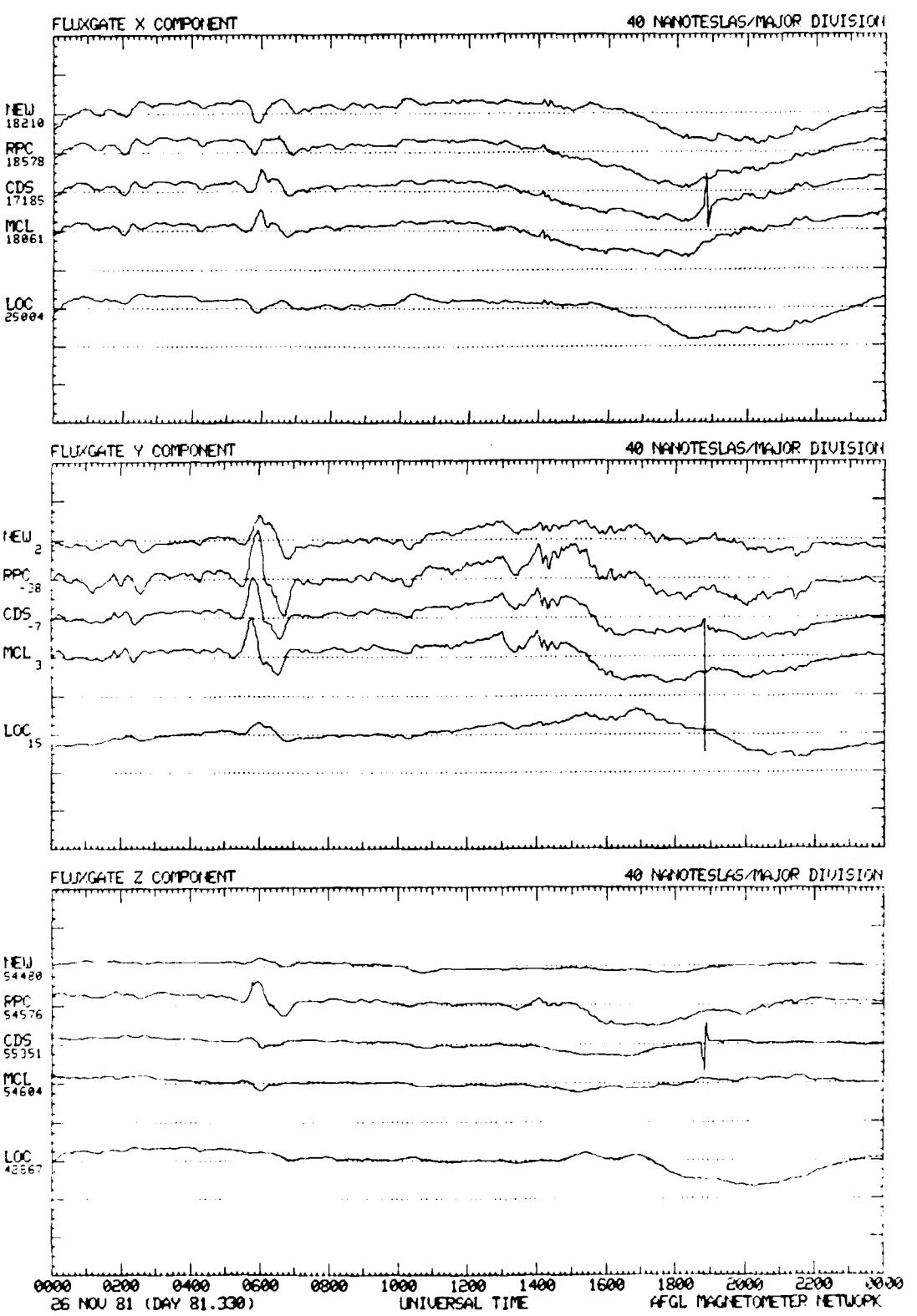
AFGL MAGNETOMETER NETWORK

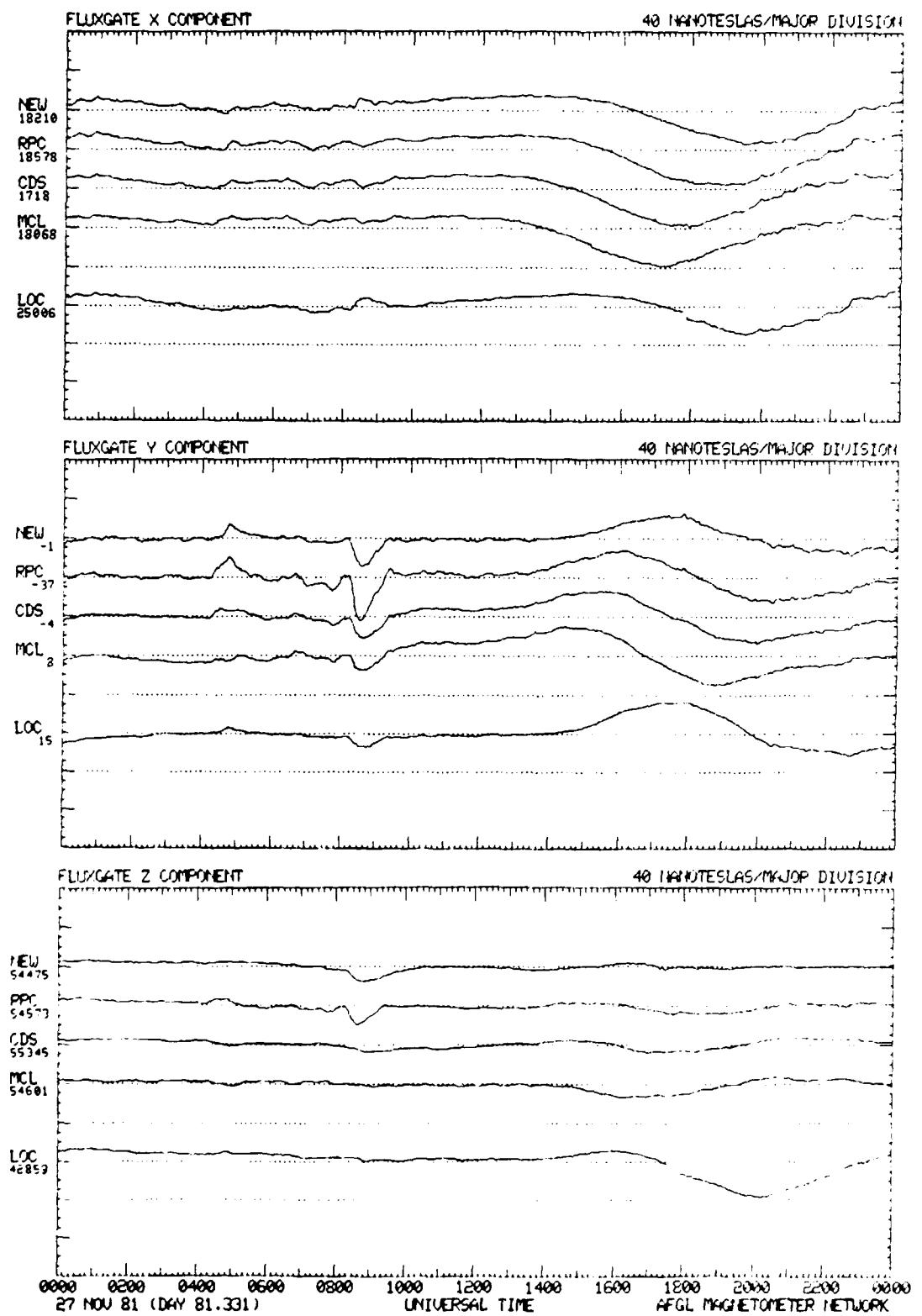


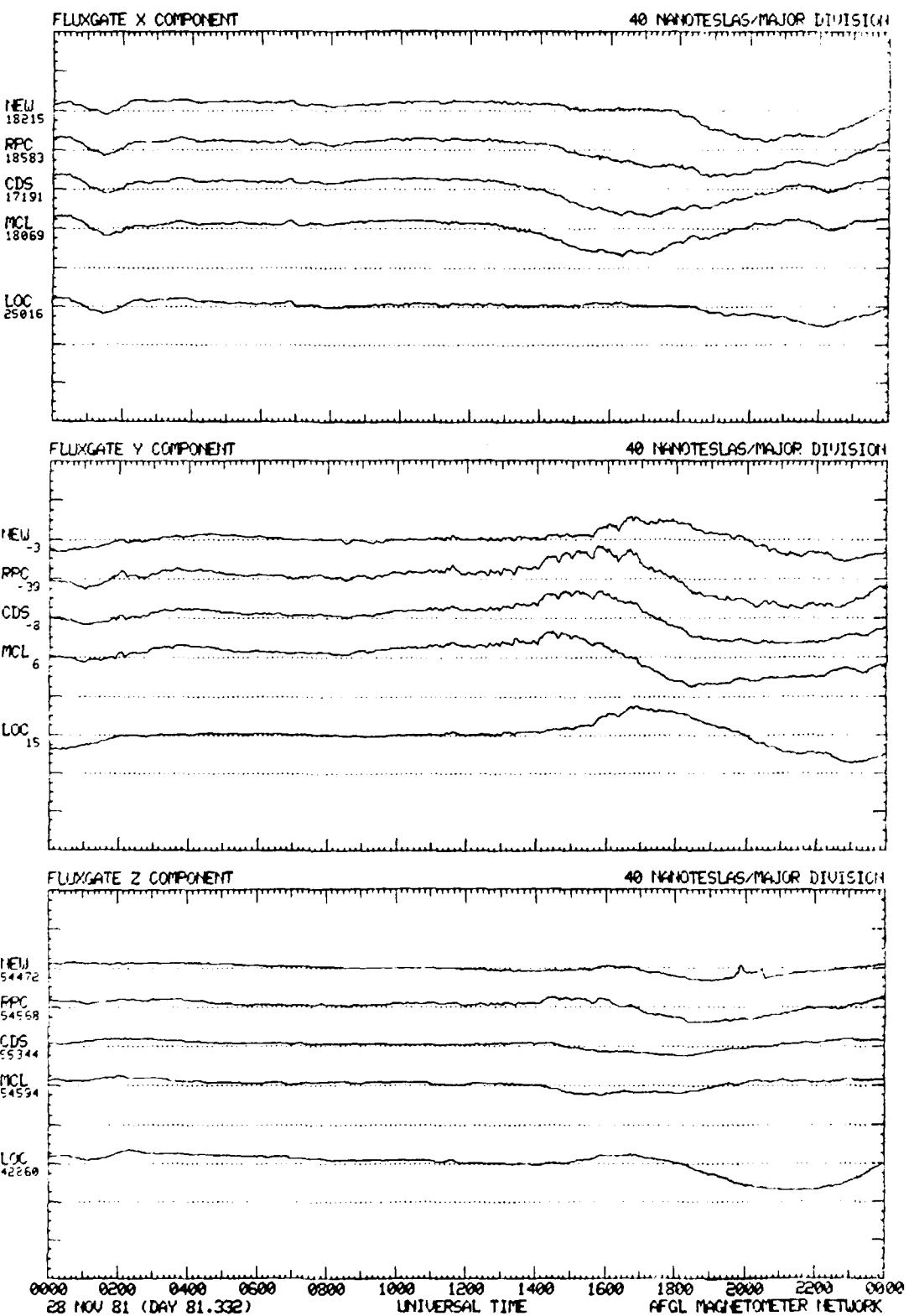


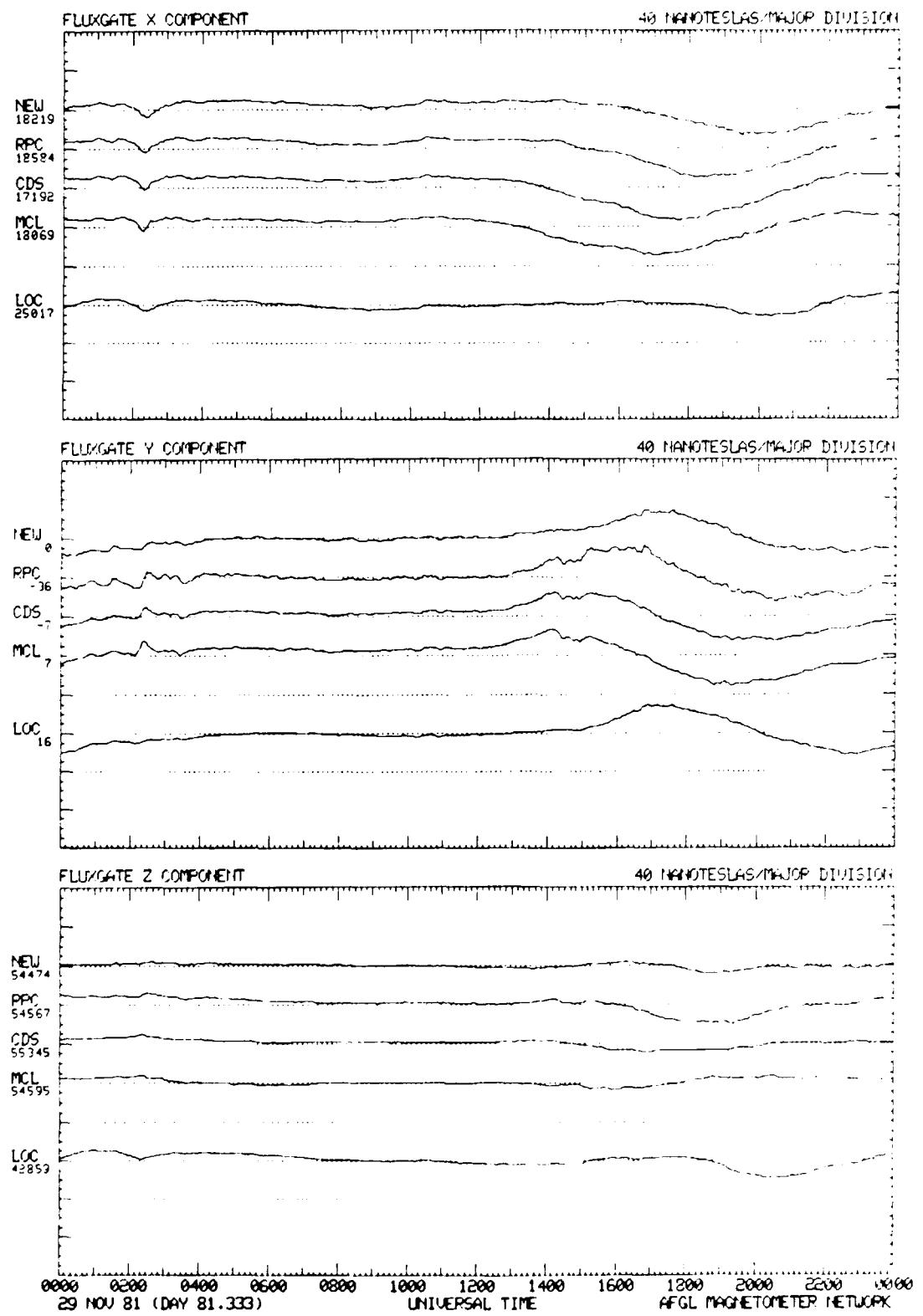


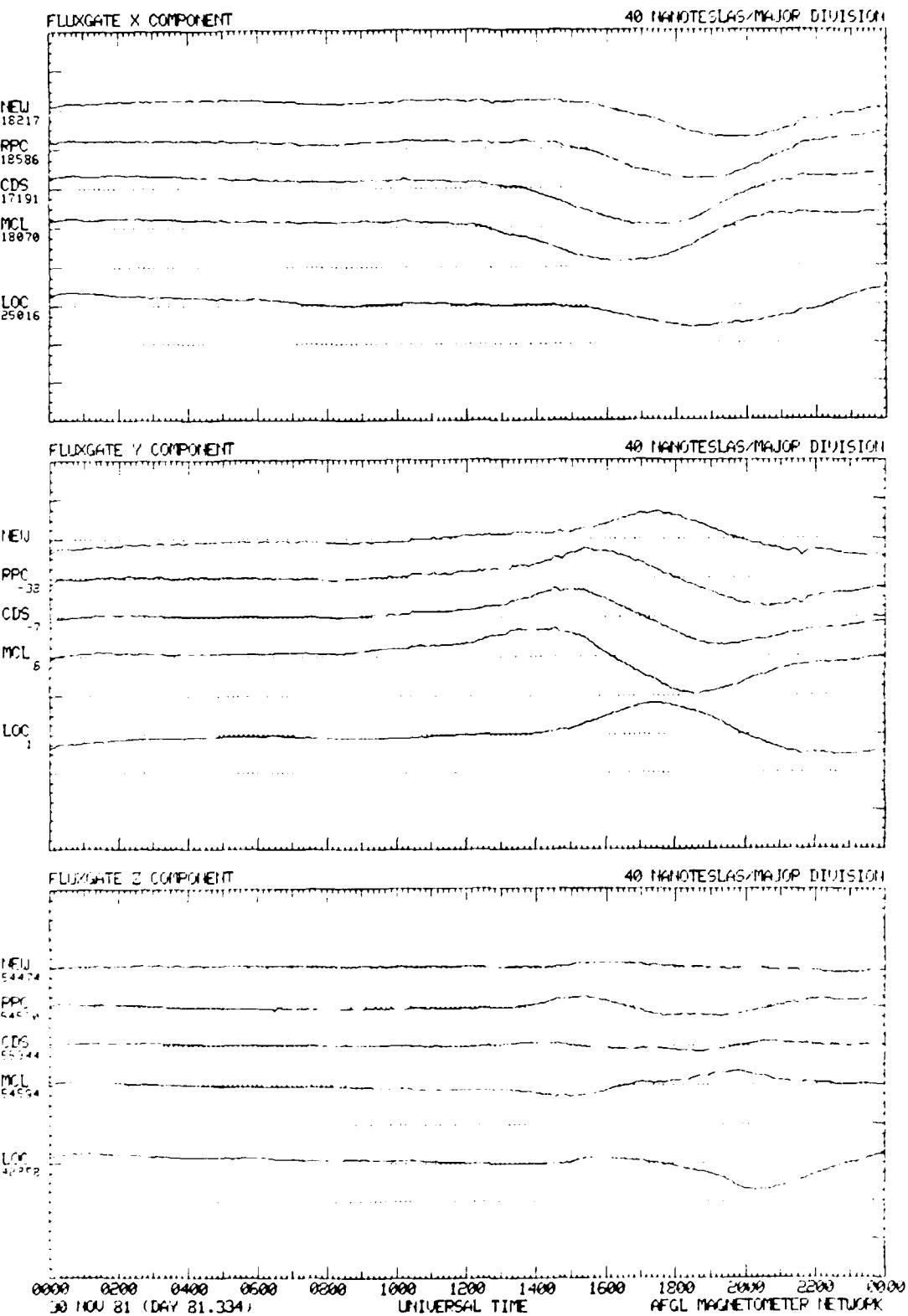












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18224
RPC
12591
CDS
17196
MCL
18074
LOC
25026

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

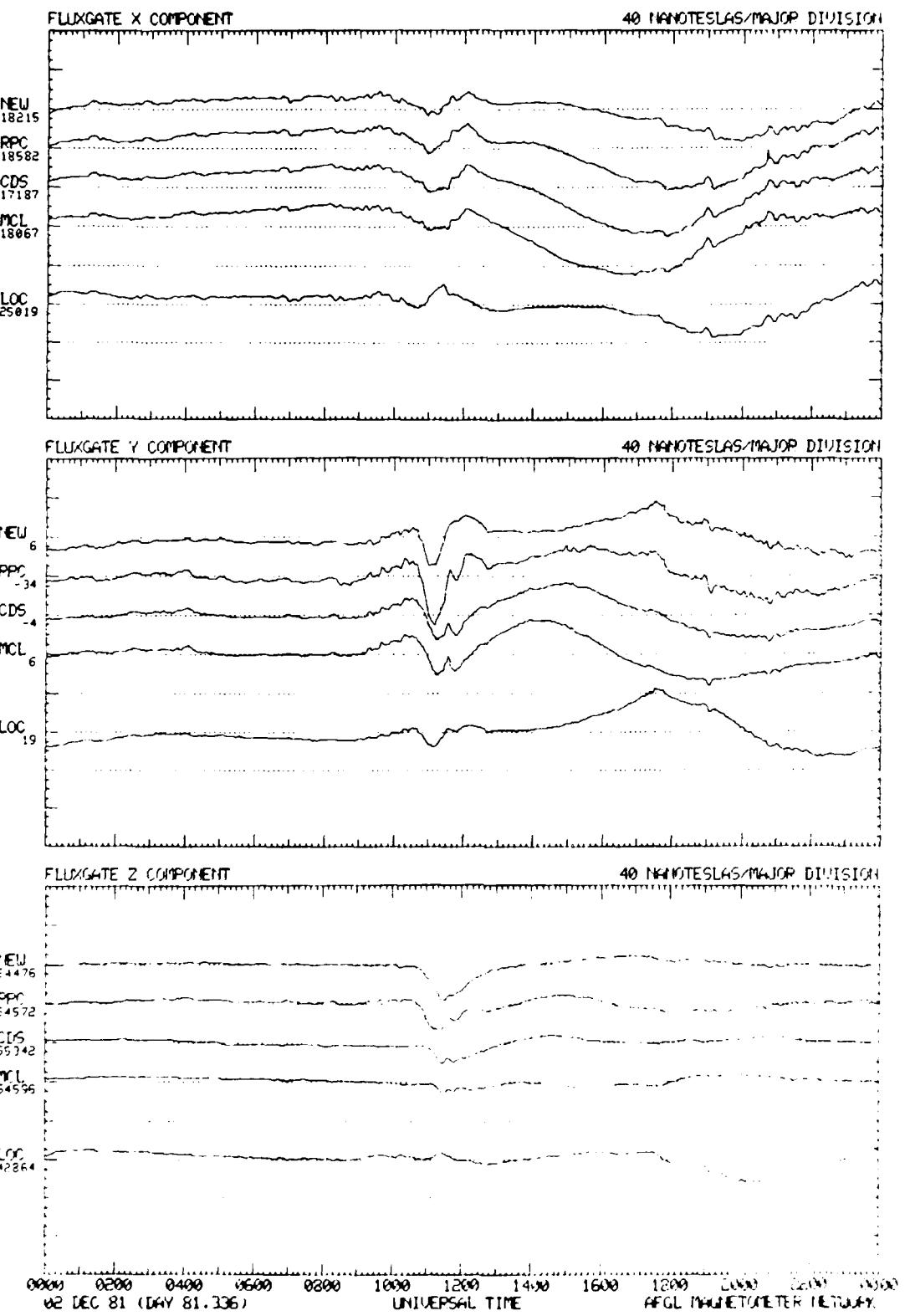
NEW
2
RPC
39
CDS
5
MCL
6
LOC
17

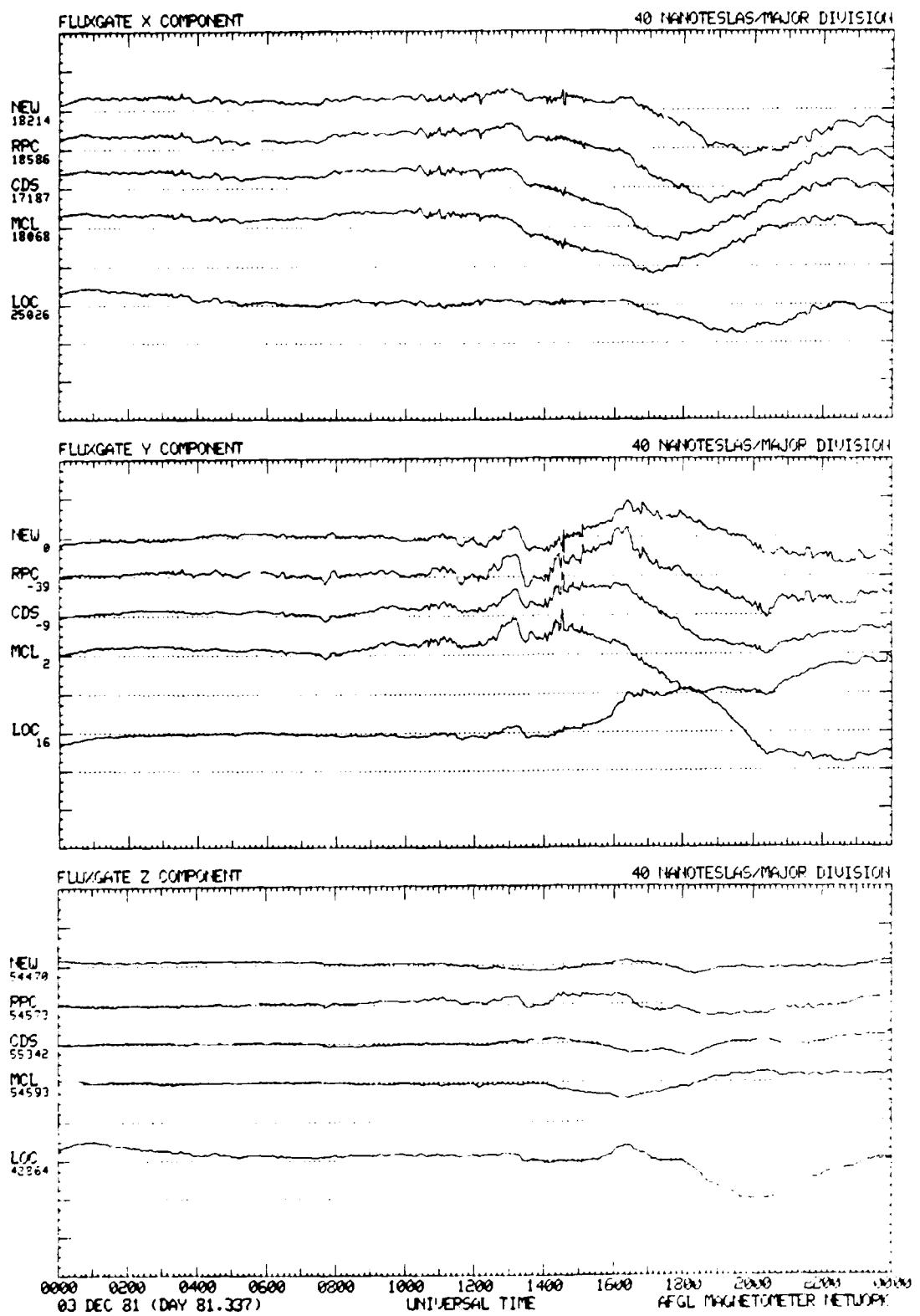
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54472
RPC
54570
CDS
55343
MCL
54594
LOC
42863

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400 0000
01 DEC 81 (DAY 81.335) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18201RPC
18665CDS
17774MCL
18954LOC
25986

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

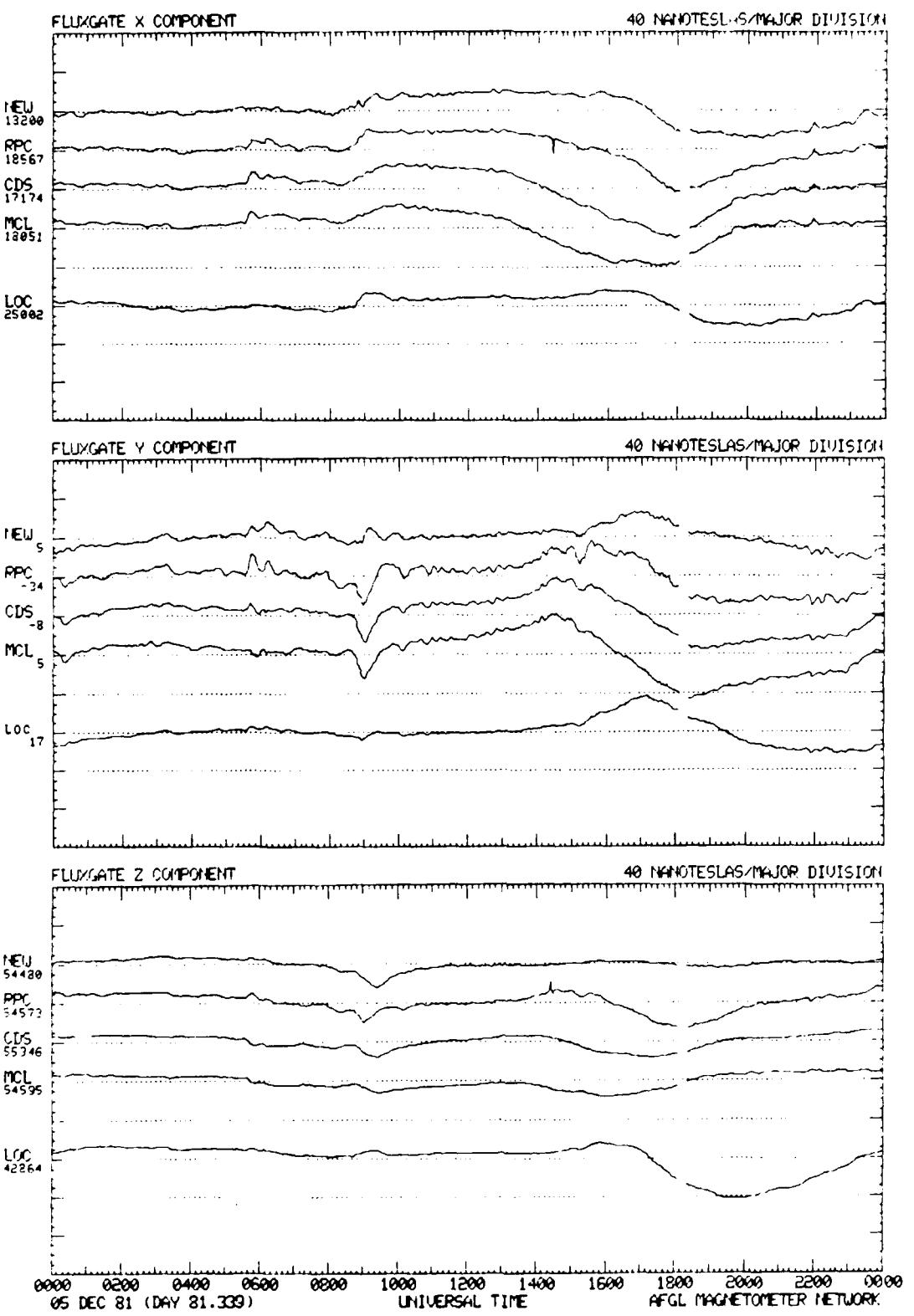
NEW

PPC
-38CDS
-9MCL
4LOC
1

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
5447PPC
54562CDS
55348MCL
54591LOC
526830600 0800 0900 0600 0800 1000 1200 1400 1600 1800 2000 2200 (1968)
34 DEC 81 (DAY 81.338) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18200
PPC
18573
CDS
17175
MCL
18015LOC
24996

FLUXGATE Y COMPONENT

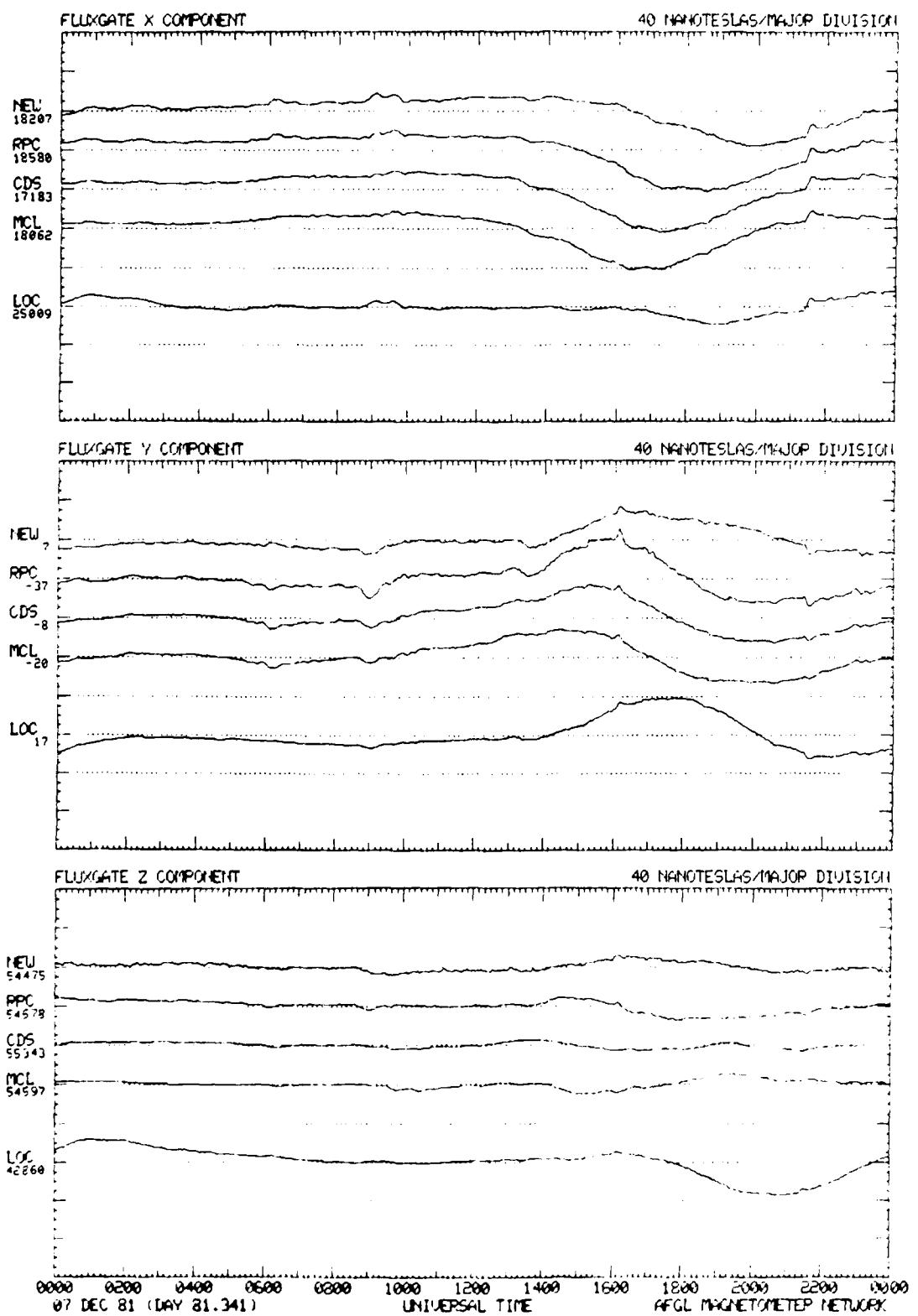
40 NANOTESLAS/MAJOR DIVISION

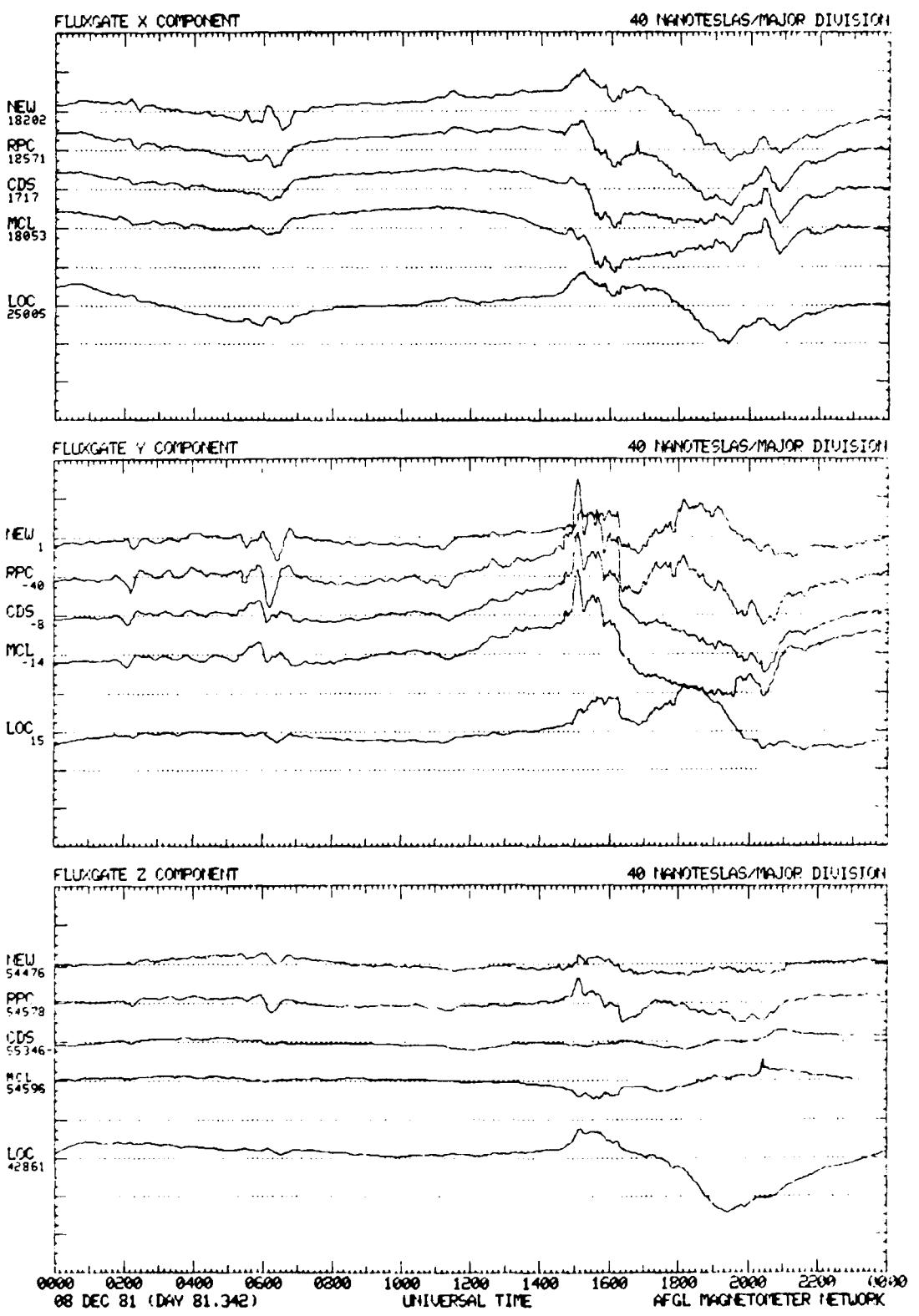
NEU
9
PPC
-32
CDS
-5
MCL
-2LOC
18

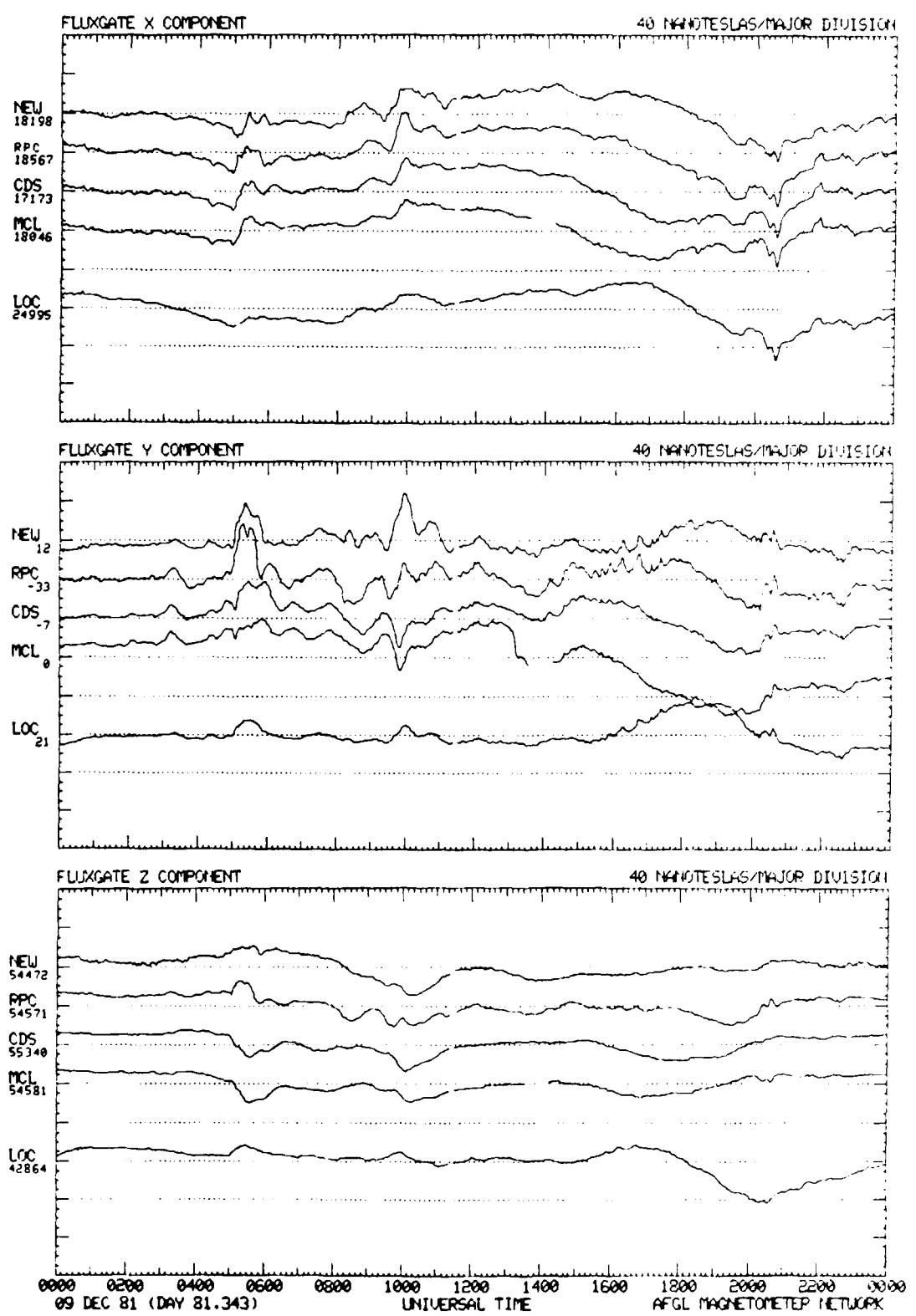
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54453
PPC
54530
CDS
59246
MCL
54575LOC
4761200000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
06 DEC 81 (DAY 81.340) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18200
RPC
18569
CDS
17175
MCL
18852LOC
24998

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
2
RPC
3
CDS
9
MCL
16LOC
14

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54476
RPC
54569
CDS
55742
MCL
54933LOC
466630000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
10 DEC 81 (DAY 81.344) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18206
RPC
18574
CDS
17176
MCL
18054

LOC
25006

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
6
RPC
-39
CDS
-11
MCL
-15

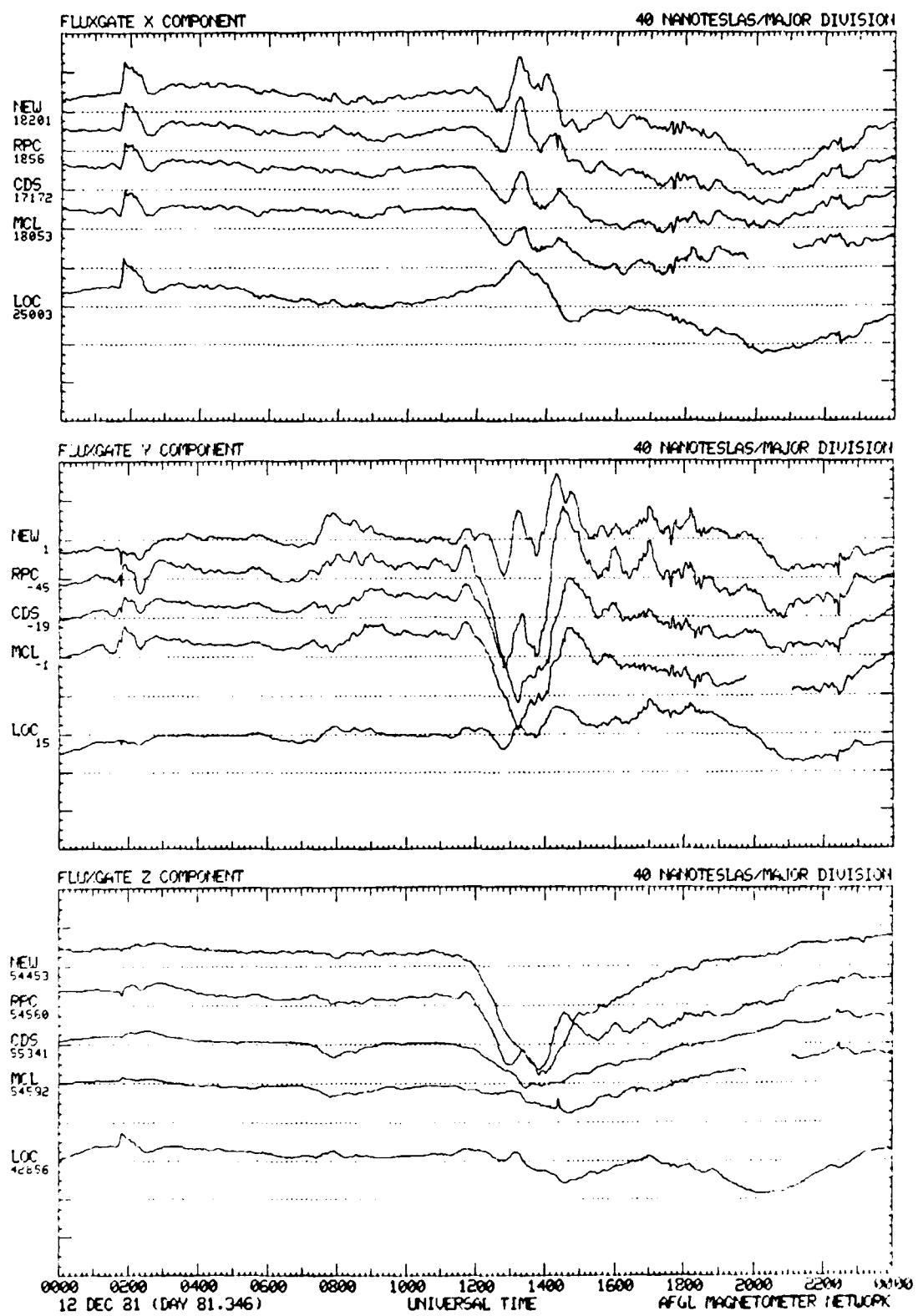
LOC
17

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54472
RPC
54571
CDS
55336
MCL
5458

LOC
428580000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 DEC 81 (DAY 81.345) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18187
RPC
18552
CDS
17161
MCL
18040

LOC
24980

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
9
RPC
-35
CDS
-3
MCL
7

LOC
19

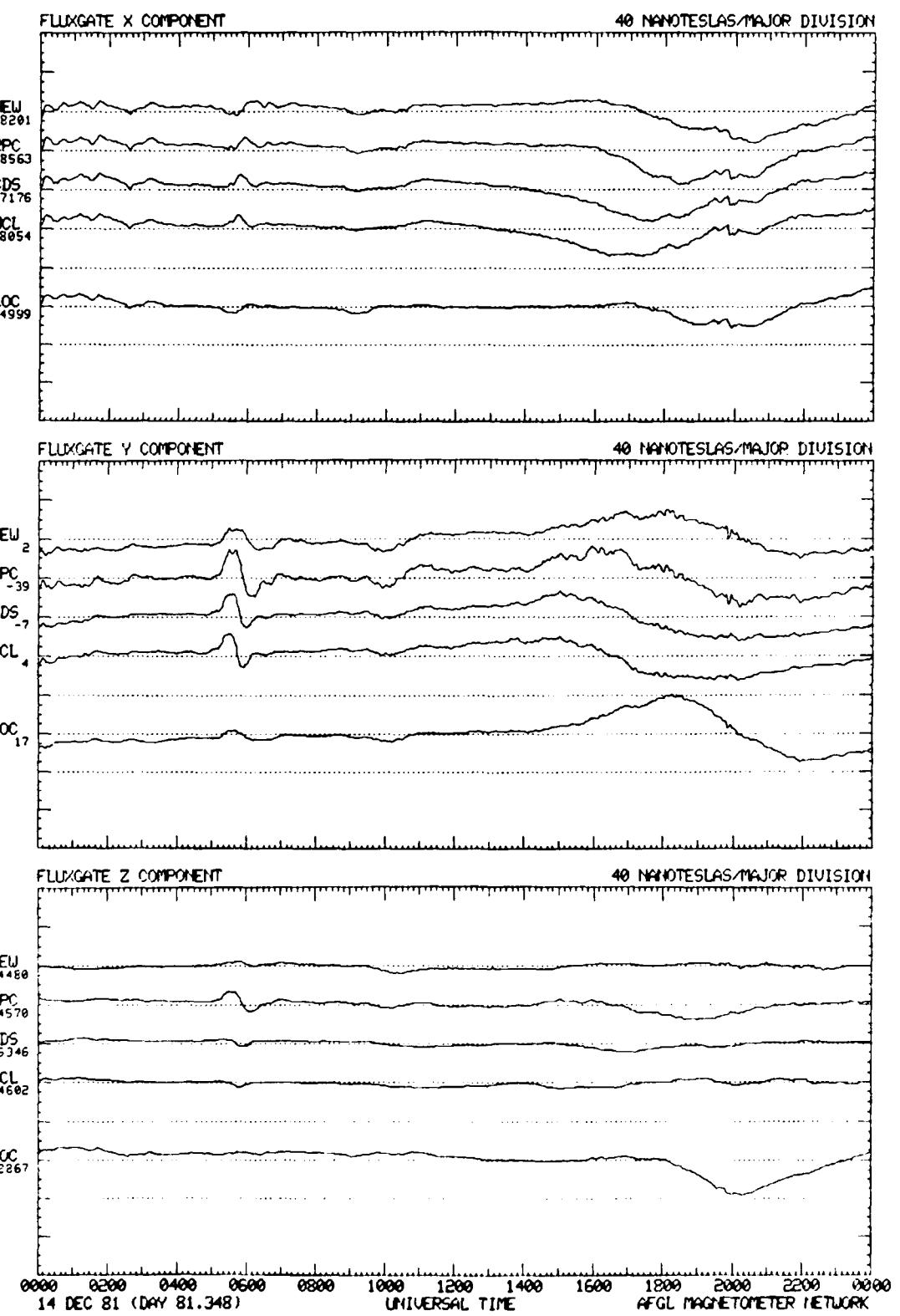
FLUXGATE Z COMPONENT

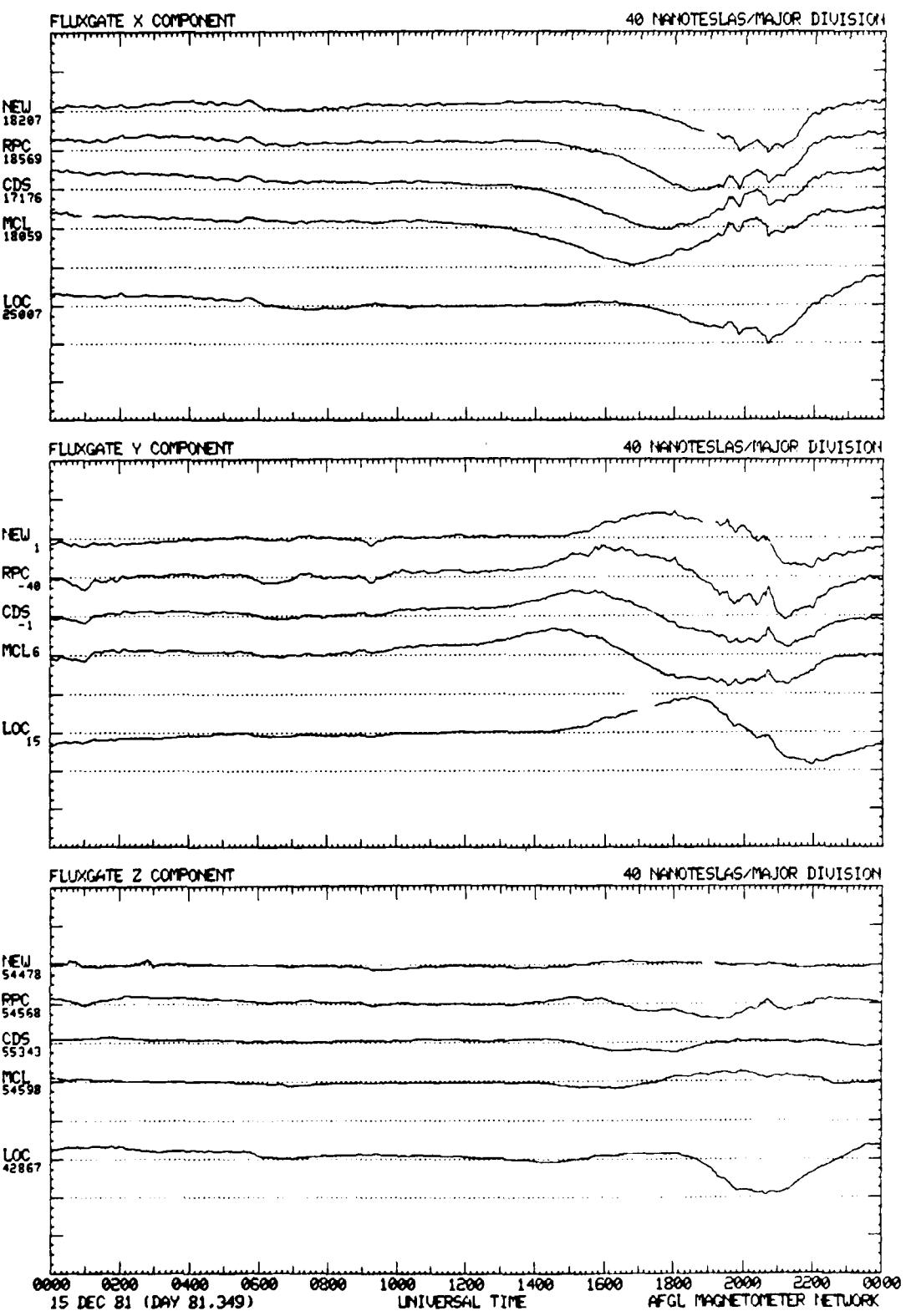
40 NANOTESLAS/MAJOR DIVISION

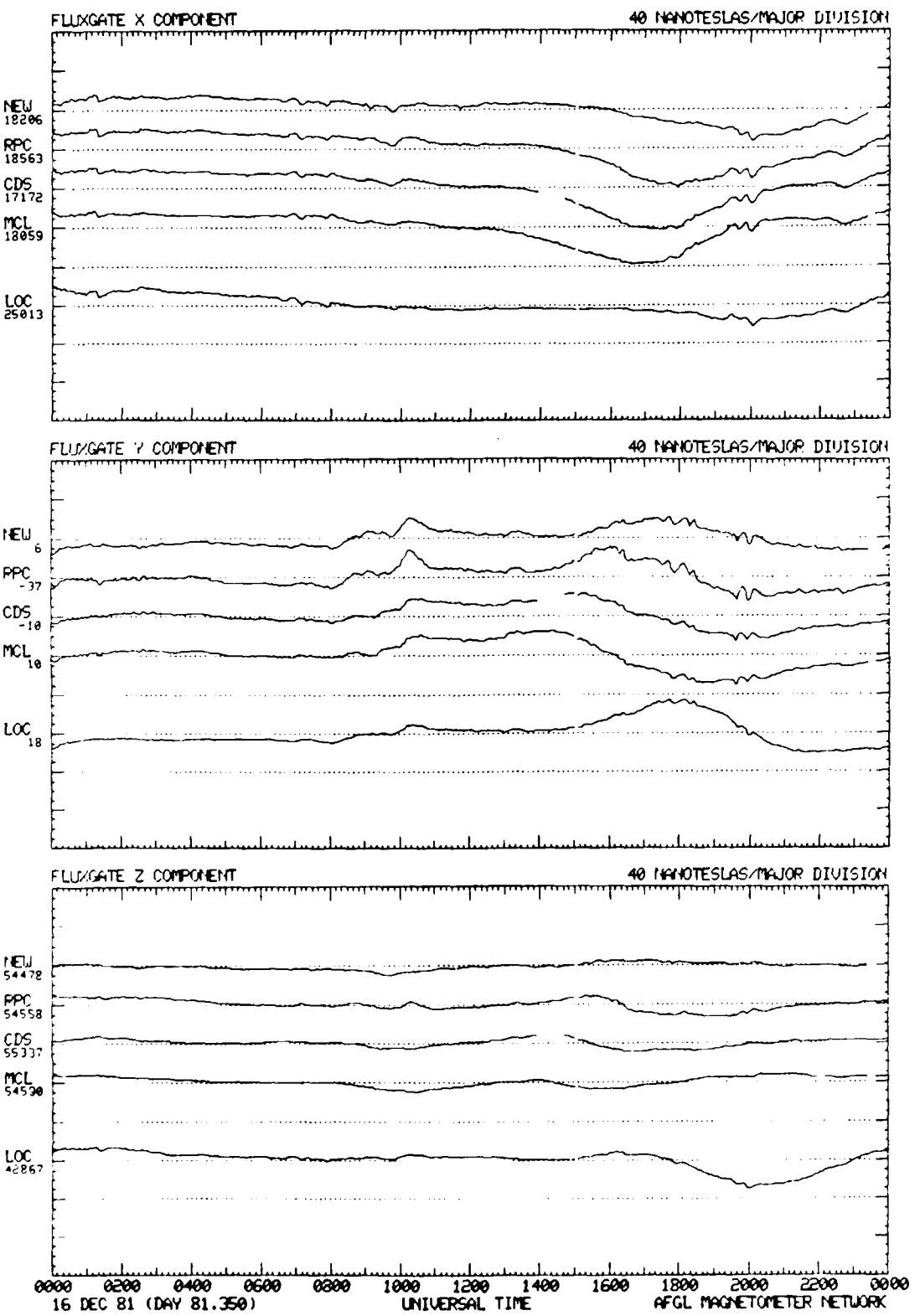
NEU
54483
RPC
54581
CDS
55352
MCL
54604

LOC
42872

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 DEC 81 (DAY 81.347) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18214
RPC
18571
CDS
17178
MCL
18064LOC
25023

FLUXGATE Y COMPONENT

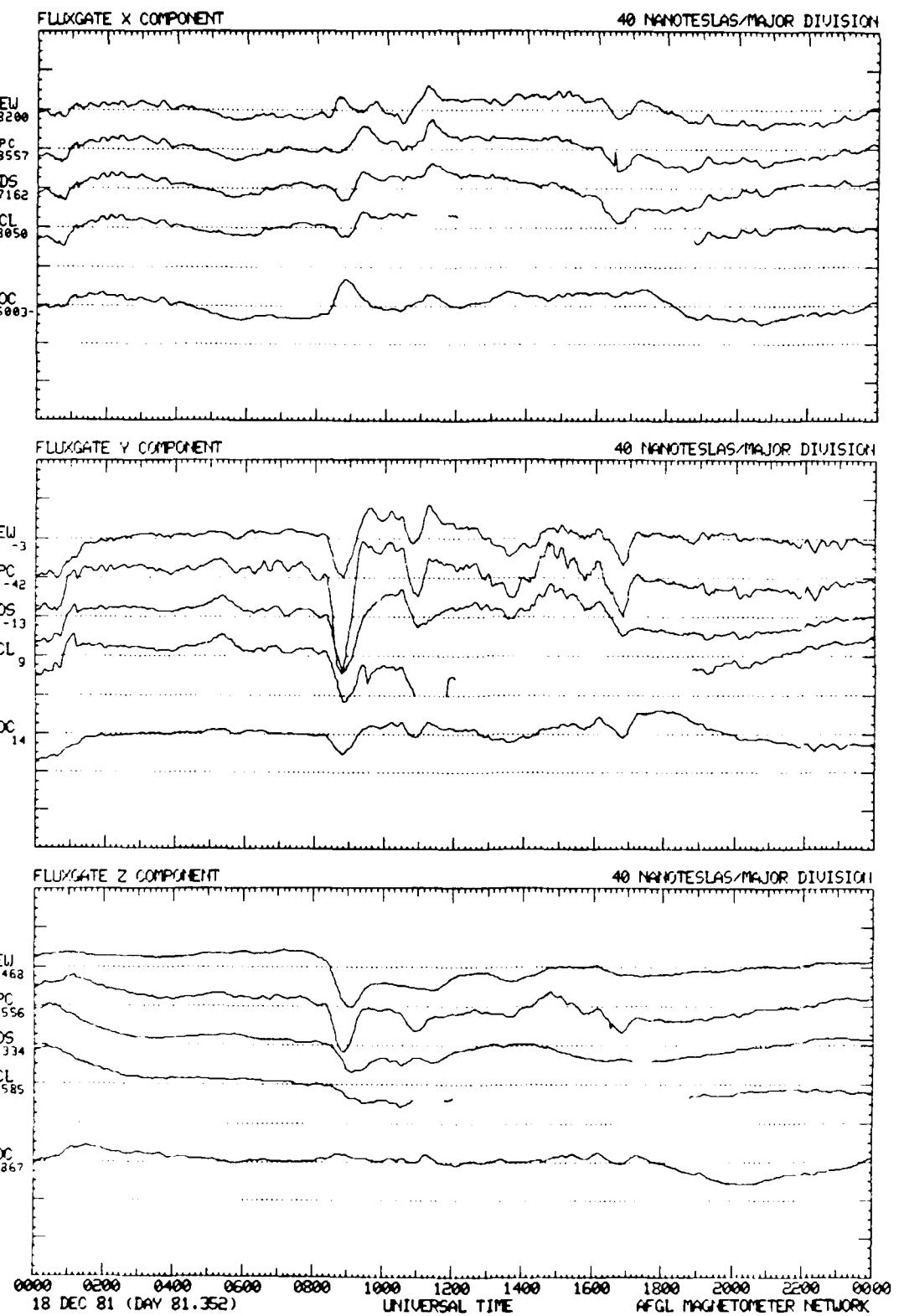
40 NANOTESLAS/MAJOR DIVISION

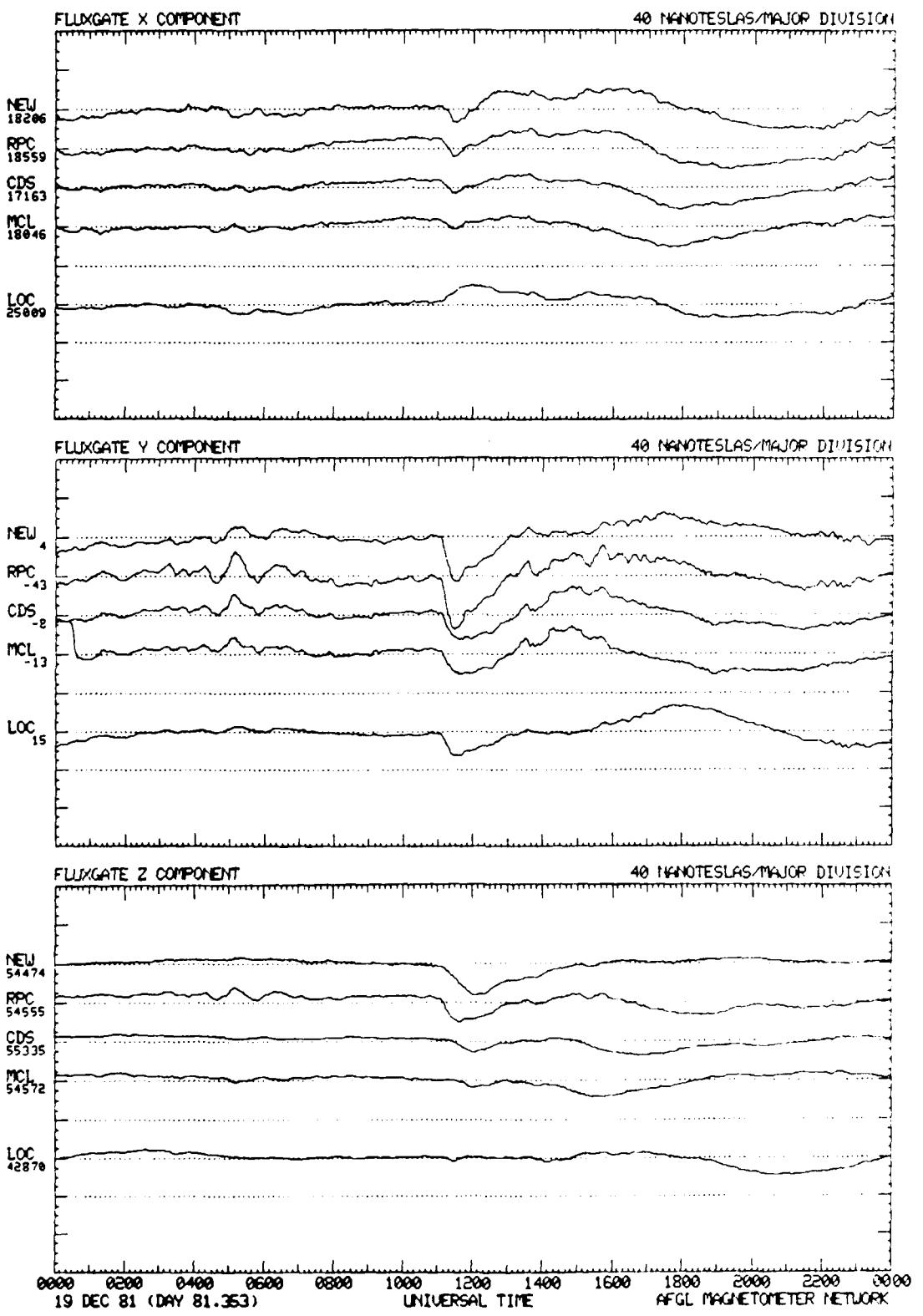
NEU
-4
RPC
-44
CDS
-1
MCL
7LOC
13

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54470
RPC
54552
CDS
55331
MCL
51587LOC
428620000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
17 DEC 81 (DAY 81.351) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18211RPC
18570CDS
17161MCL
18049LOC
25015

FLUXGATE Y COMPONENT

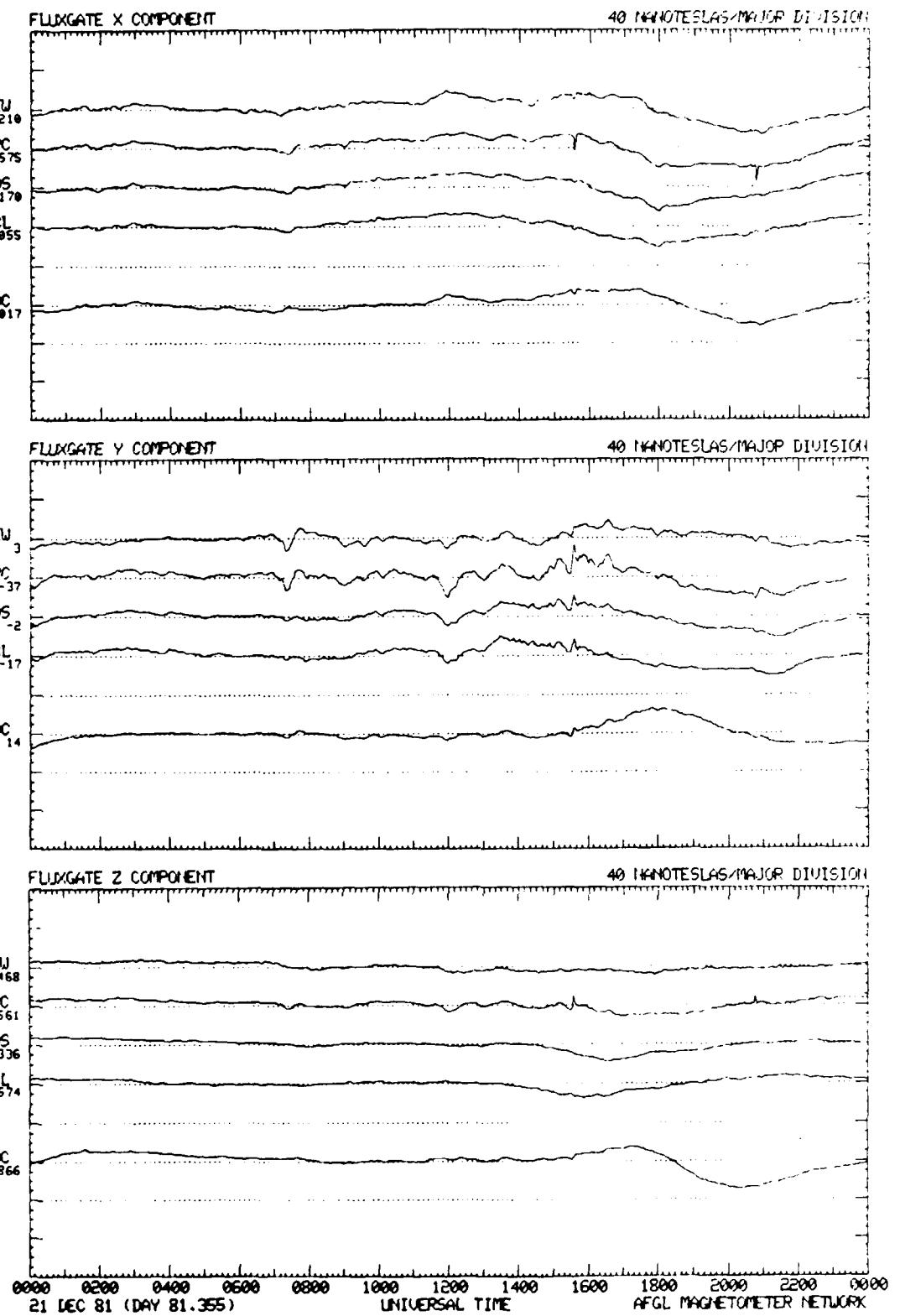
40 NANOTESLAS/MAJOR DIVISION

NEW
6RPC
-37CDS
-4MCL
-14LOC
15

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54474RPC
54561CDS
55339MCL
54575LOC
428690000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 DEC 81 (DAY 81.354) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
19214
RPC
18579
CDS
17182
MCL
18063LOC
25020

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
4
RPC
-48
CDS
-3
MCL
-11LOC
13

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
24466
RPC
5456
CDS
55336
MCL
54576LOC
53620000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300 0000
22 DEC 81 (DAY 81.356) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18213
RPC
18576
CDS
17180
MCL
18061LOC
25013

FLUXGATE Y COMPONENT

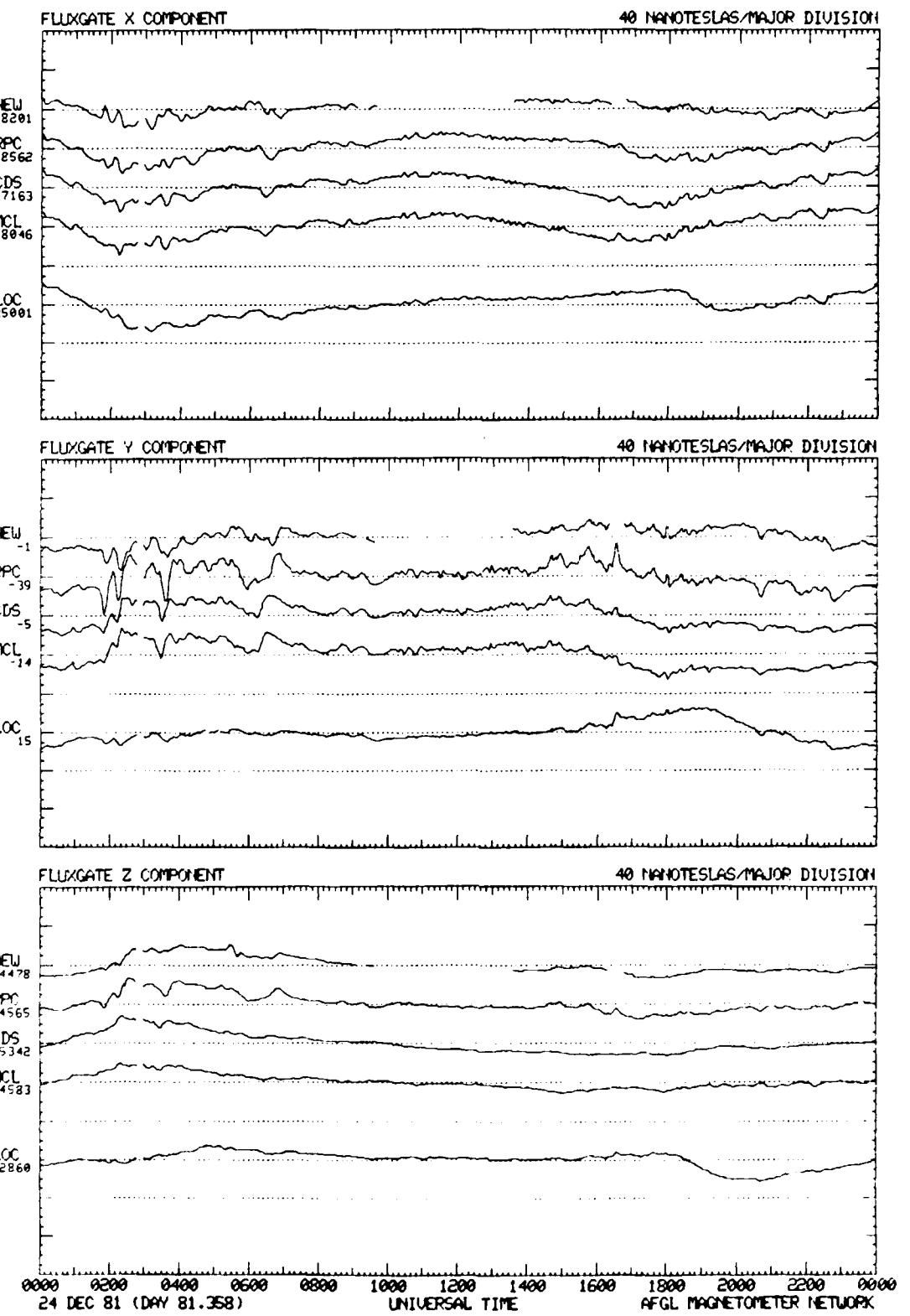
40 NANOTESLAS/MAJOR DIVISION

NEW
-3
RPC
-41
CDS
-5
MCL
-10LOC
13

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54470
RPC
54562
CDS
55737
MCL
54577LOC
428560000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 DEC 81 (DAY 81.357) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18214
RPC
18577
CDS
17175
MCL
18059LOC
25016

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
1
RPC
-39
CDS
-3
MCL
9LOC
11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54478
RPC
54564
CDS
55342
MCL
54579LOC
428670000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
25 DEC 81 (DAY 81.359) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18214
RPC
18577
CDS
17175
MCL
18859

LOC
28916

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-1
RPC
-32
CDS
-3
MCL
-9

LOC
11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
544-2
RPC
54564
CDS
55142
MCL
54579

LOC
48867

00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
26 DEC 81 (DAY 81.360)

00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
55214
PPC
54577
CDS
52120
MCL
18059

LOC
25916

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-1
PPC
-39
CDS
-3
MCL
-9

LOC
11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54478
PPC
54564
CDS
55346
MCL
55579

LOC
423.7

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 DEC 81 (DAY 81.361)

UNIVERSAL TIME

IGC MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18214
RPC
18577
CDS
17175
MCL
18059

LOC
25016

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-1
RPC
-39
CDS
-3
MCL
-9

LOC
11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54478
RPC
54564
CDS
55342
MCL
54579

LOC
42867

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 DEC 81 (DAY 81.362) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18214
RPC
18577
CDS
17175
MCL
18059LOC
25016

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-1
RPC
-39
CDS
-3
MCL
-9LOC
11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54478
RPC
54564
CDS
55342
MCL
54579LOC
428670000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
29 DEC 81 (DAY 81.363) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18214
RPC
18577
CDS
17175
MCL
18059

LOC
25016

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-1
RPC
-39
CDS
-3
MCL
-9

LOC
11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54478
RPC
54564
CDS
55342
MCL
54579

LOC
42867

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 DEC 81 (DAY 81.362) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

8. SUPPLEMENTARY PLOTS AT REDUCED AMPLITUDE

This section presents a stacked-magnetogram plot for each of the following days of 1981, using an amplitude scale of 160 or 400 nT per major division:

January	none
February	05, 06, 07, 09
March	02, 05, 14, 15, 25, 26
April	11, 12, 13, 14, 21, 22, 26, 27, 29
May	09, 10, 11, 15, 16, 17, 18
June	none
July	17, 25, 26
August	29
September	18, 19
October	08, 11, 14, 15, 20, 21, 22, 23
November	08, 11, 12, 14
December	none

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW 18083
RPC 18566
CDS 17060
MCL 18088
SUB 18579
LOC 24992
TPA 25390

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW 18
RPC 6
CDS 105
MCL 69
SUB 150
LOC 33
TPA -3

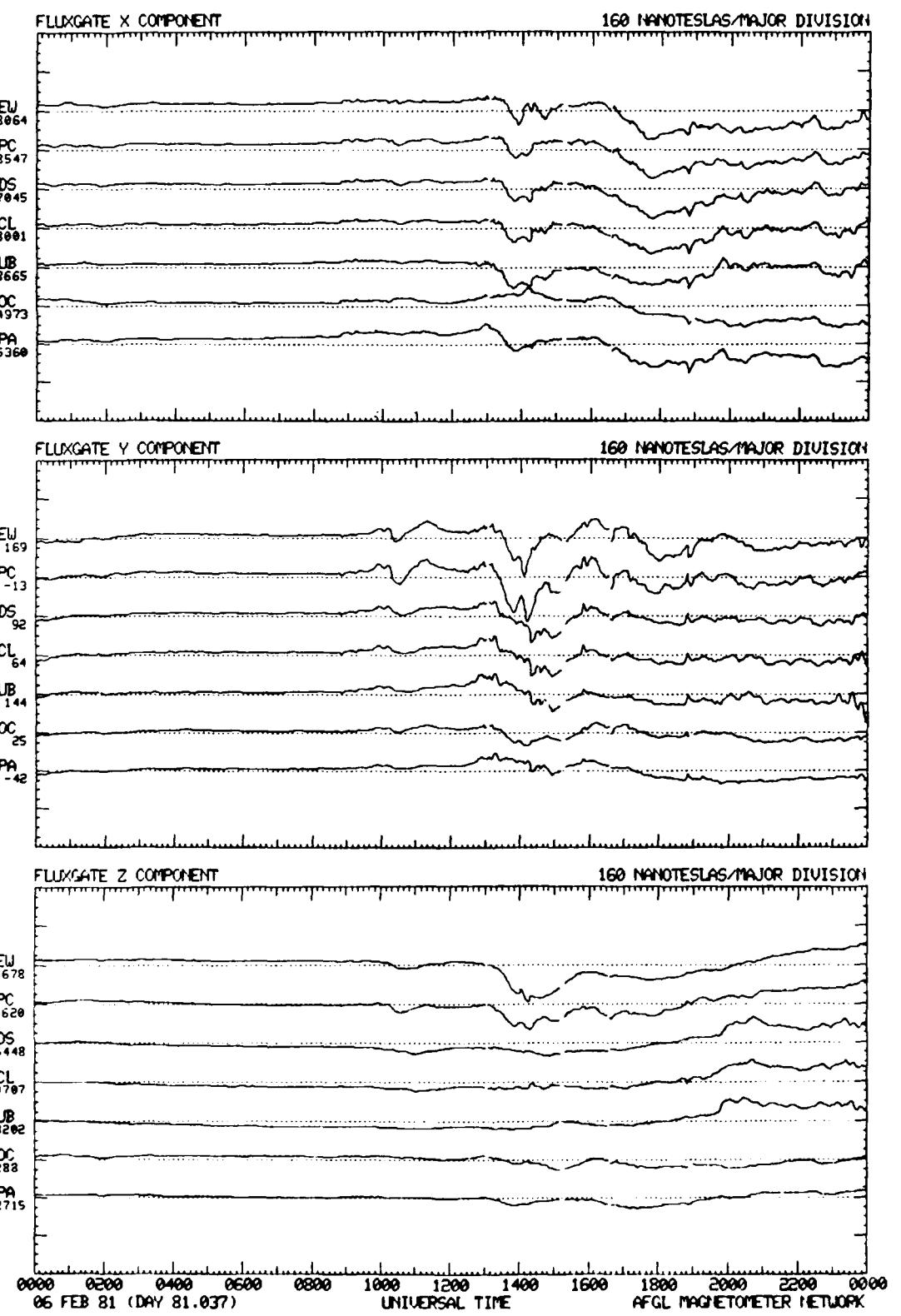
FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW 54673
RPC 54610
CDS 55425
MCL 54674
SUB 53175
LOC 42896
TPA 427060000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 FEB 81 (DAY 81.036)

UNIVERSAL TIME

AFCL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18073
RPC
18552
CDS
17642
MCL
18661
SUB
18654
LOC
24958
TPA
25360

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

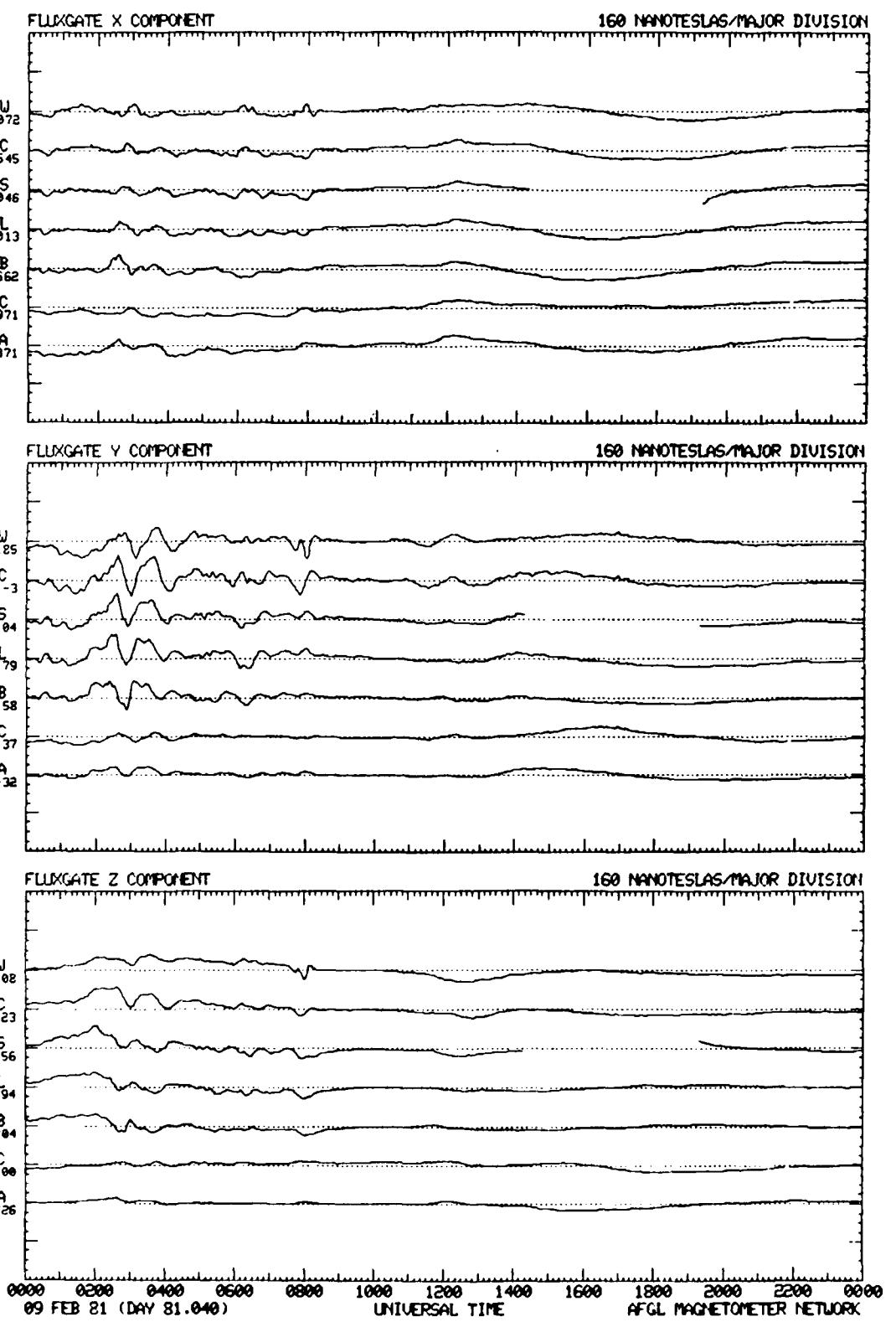
NEW
179
RPC
-3
CDS
183
MCL
72
SUB
159
LOC
38
TPA
-33

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54716
RPC
54648
CDS
55464
MCL
54715
SUB
53218
LOC
42903
TPA
42734

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 FEB 81 (DAY 81.038) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18074
RPC
18559
CDS
1709
MCL
18065
SUB
18633
LOC
24977
TPA
25386

FLUXGATE Y COMPONENT

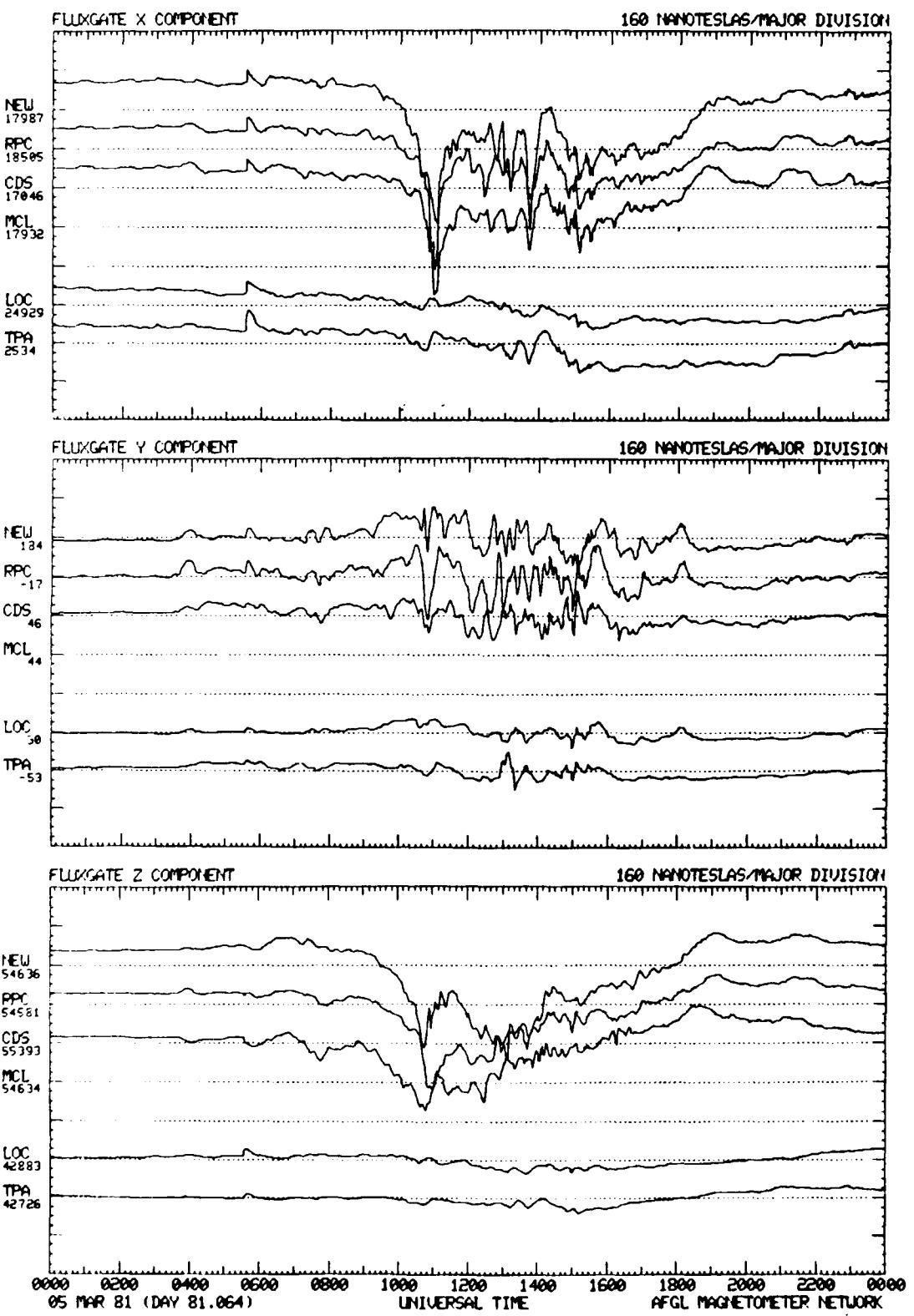
160 NANOTESLAS/MAJOR DIVISION

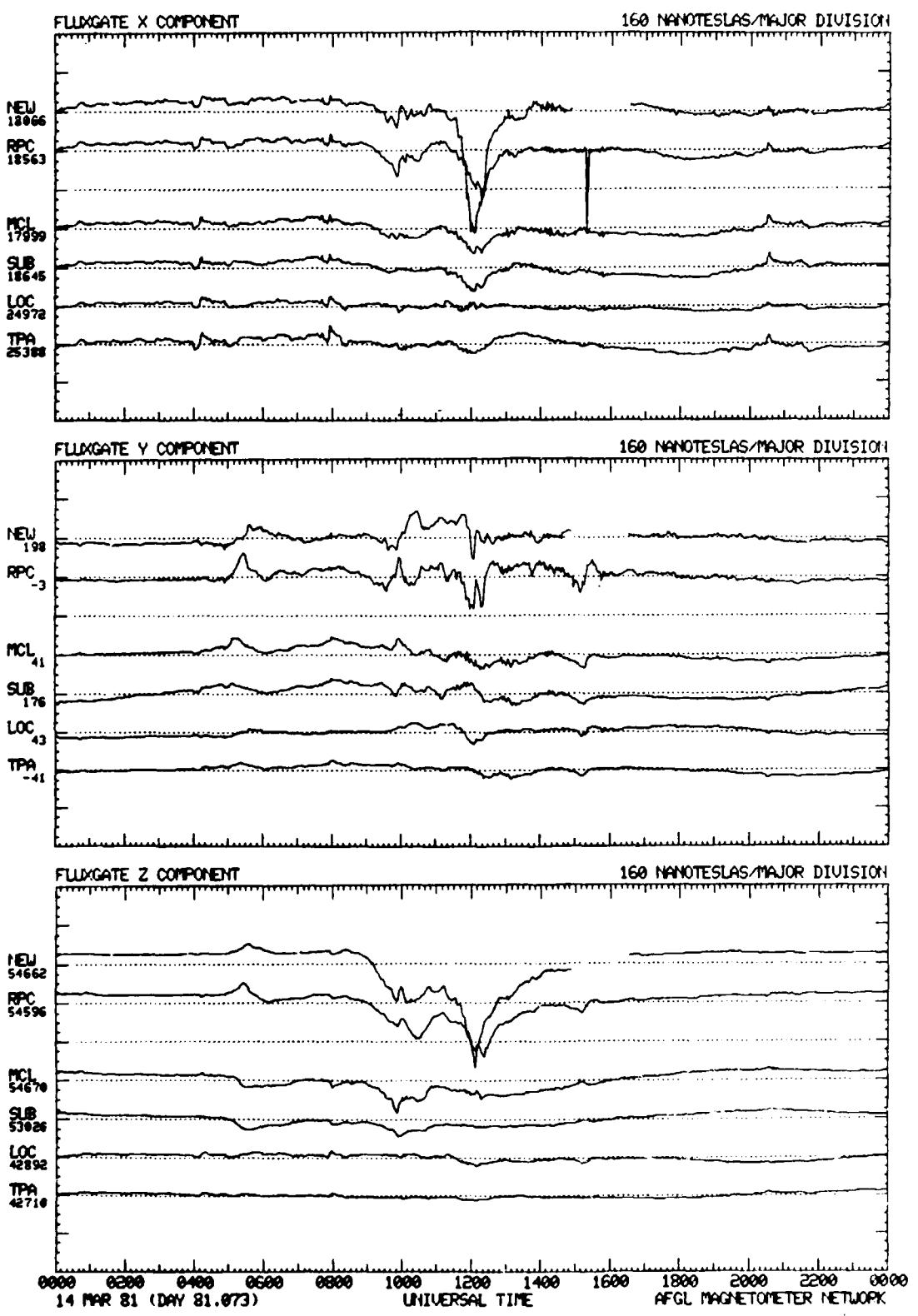
NEU
188
RPC
-6
CDS
62
MCL
34
SUB
188
LOC
37
TPA
-40

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54676
RPC
54699
CDS
55495
MCL
54792
SUB
53034
LOC
42899
TPA
427200000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
02 MAR 81 (DAY 81.061) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





AD-A173 958

DAILY MAGNETograms FOR 1981 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 28 FEB 85

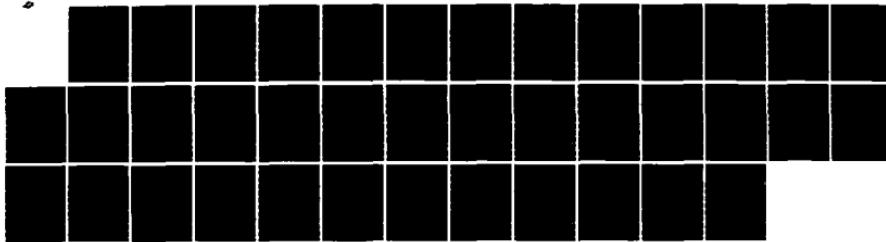
5/5

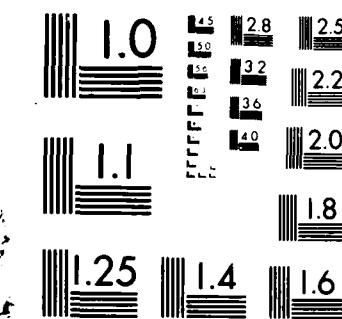
UNCLASSIFIED

AFGL-TR-85-0030

F/G 4/1

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18081
RPC
18575
CDS
17107
MCL
18014
SUB
18649
LOC
24971
TPA
25393

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
187
RPC
-14
CDS
45
MCL
30
SUB
198
LOC
31
TPA
-39

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54698
RPC
54625
CDS
55430
MCL
54695
SUB
53039
LOC
42893
TPA
42714

00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
15 MAR 81 (DAY 81.074) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18698
RPC
18595
CDS
17131
MCL
18635
SUB
18674
LOC
25966
TPA
25407

FLUXGATE Y COMPONENT

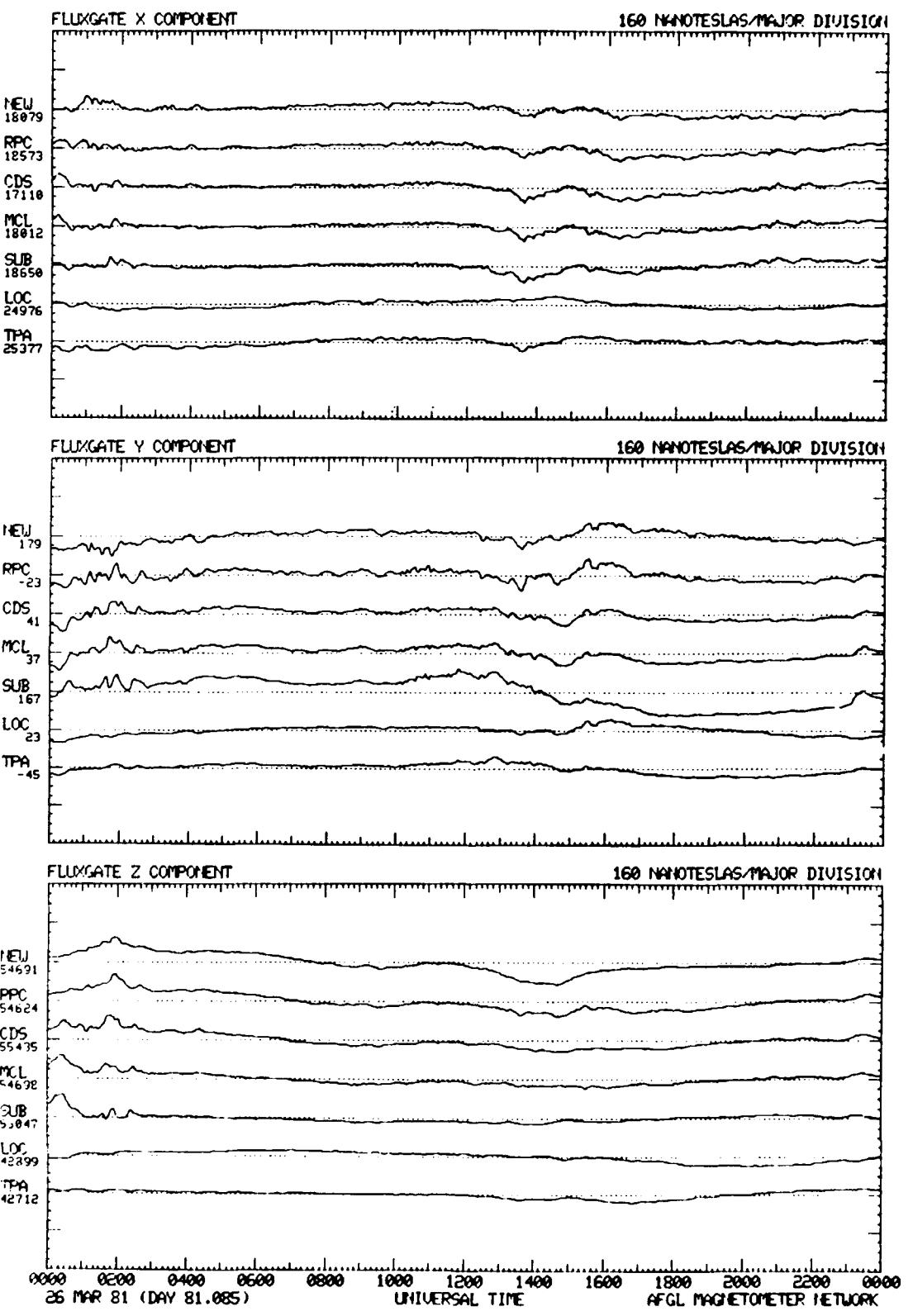
160 NANOTESLAS/MAJOR DIVISION

NEW
125
RPC
-16
CDS
49
MCL
21
SUB
198
LOC
27
TPA
-44

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54684
RPC
54699
CDS
55418
MCL
54681
SUB
53026
LOC
42892
TPA
426940000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0300
25 MAR 81 (DAY 81.084) UNIVERSAL TIME AFGL MAGNETOMETER NETUOPIX



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18118RPC
18622CDS
17182MCL
18070LOC
25015TPA
25436

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
181RPC
-19CDS
3MCL
30LOC
27TPA
-43

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54667RPC
54599CDS
55392MCL
54673LOC
42883TPA
427110000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 APR 81 (DAY 81.101) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18083
RPC
18565
CDS
17116
MCL
17998
LOC
24927
TPA
25344

FLUXGATE Y COMPONENT

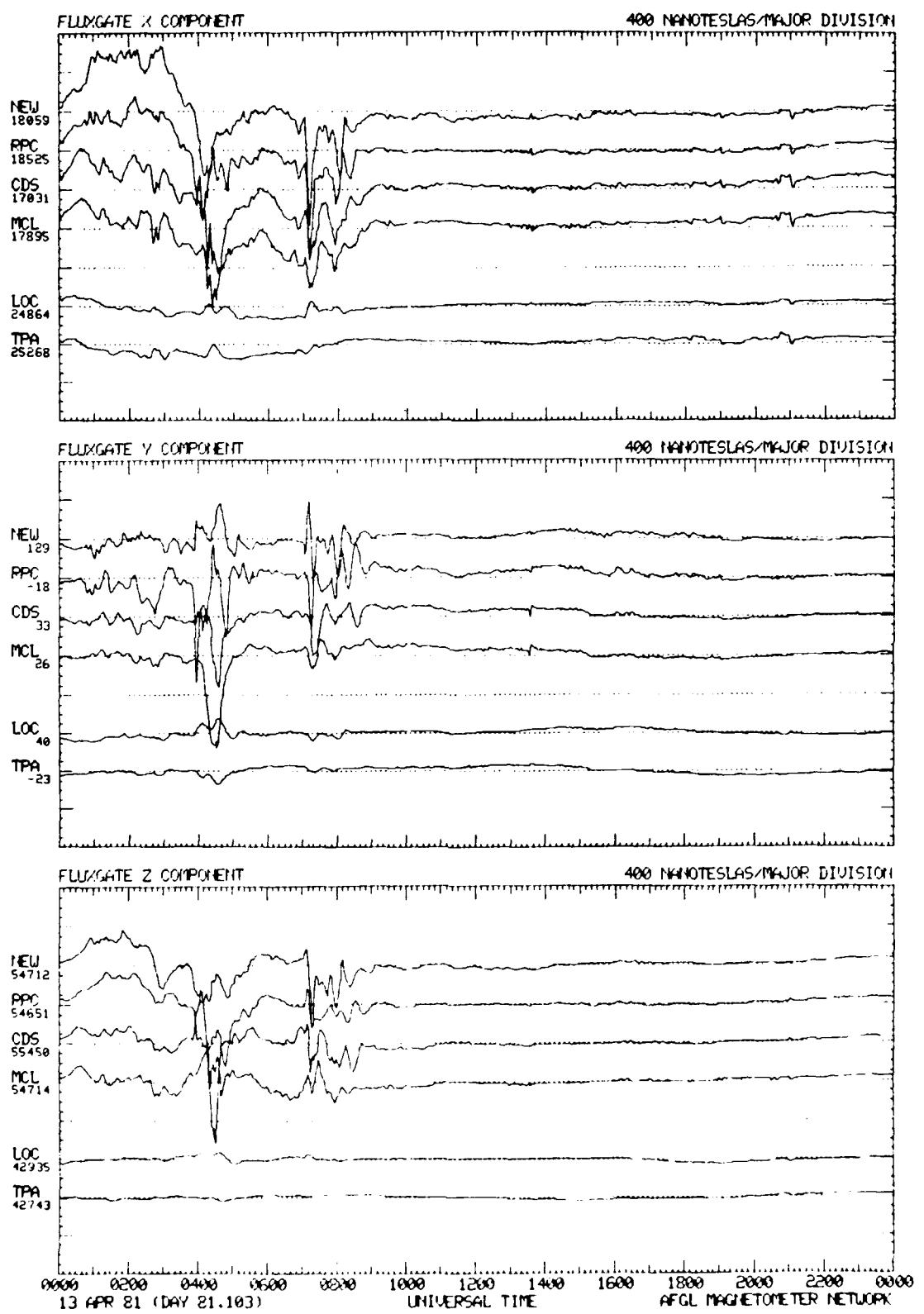
160 NANOTESLAS/MAJOR DIVISION

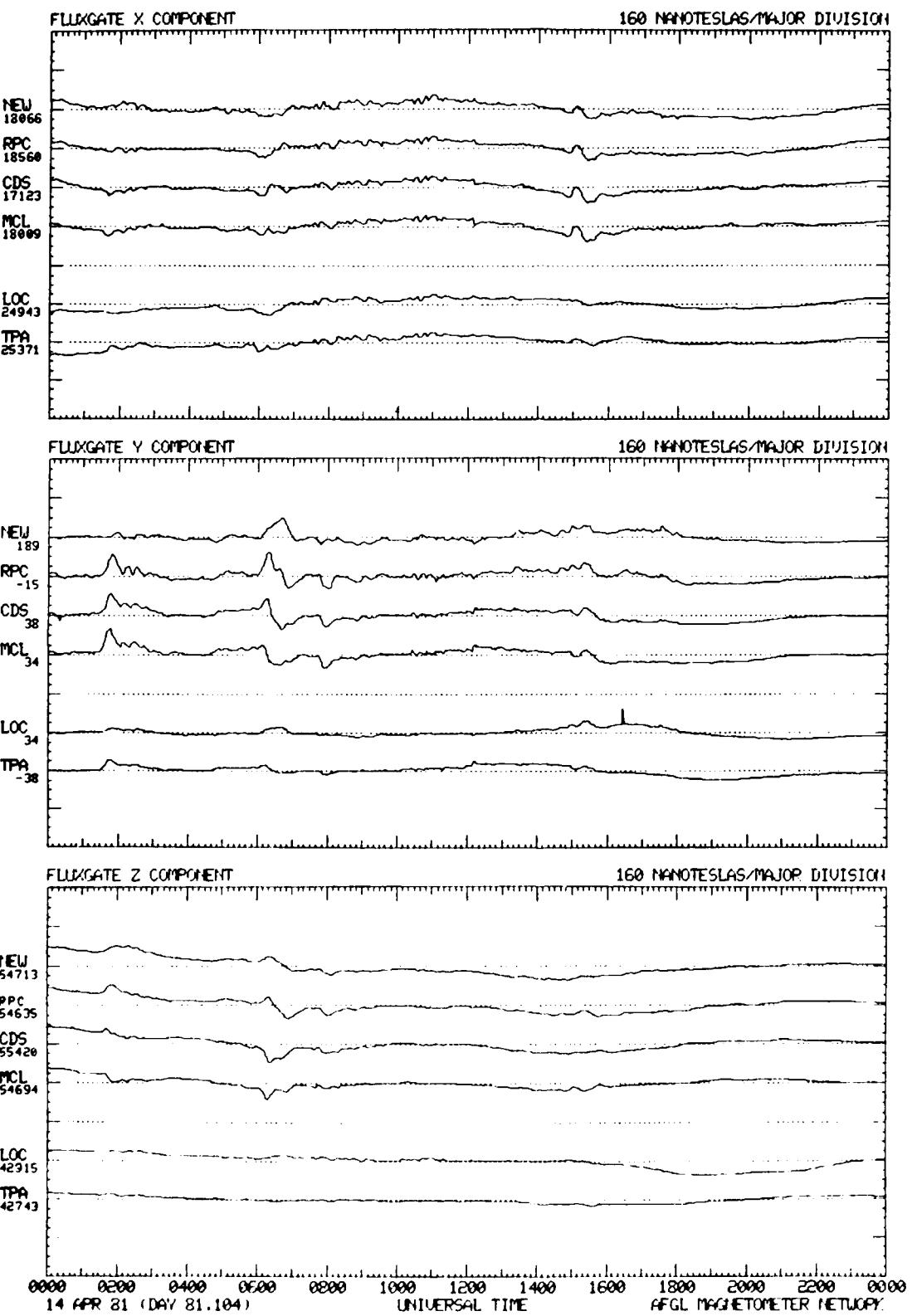
NEW
179
RPC
-1
CDS
36
MCL
28
LOC
30
TPA
-45

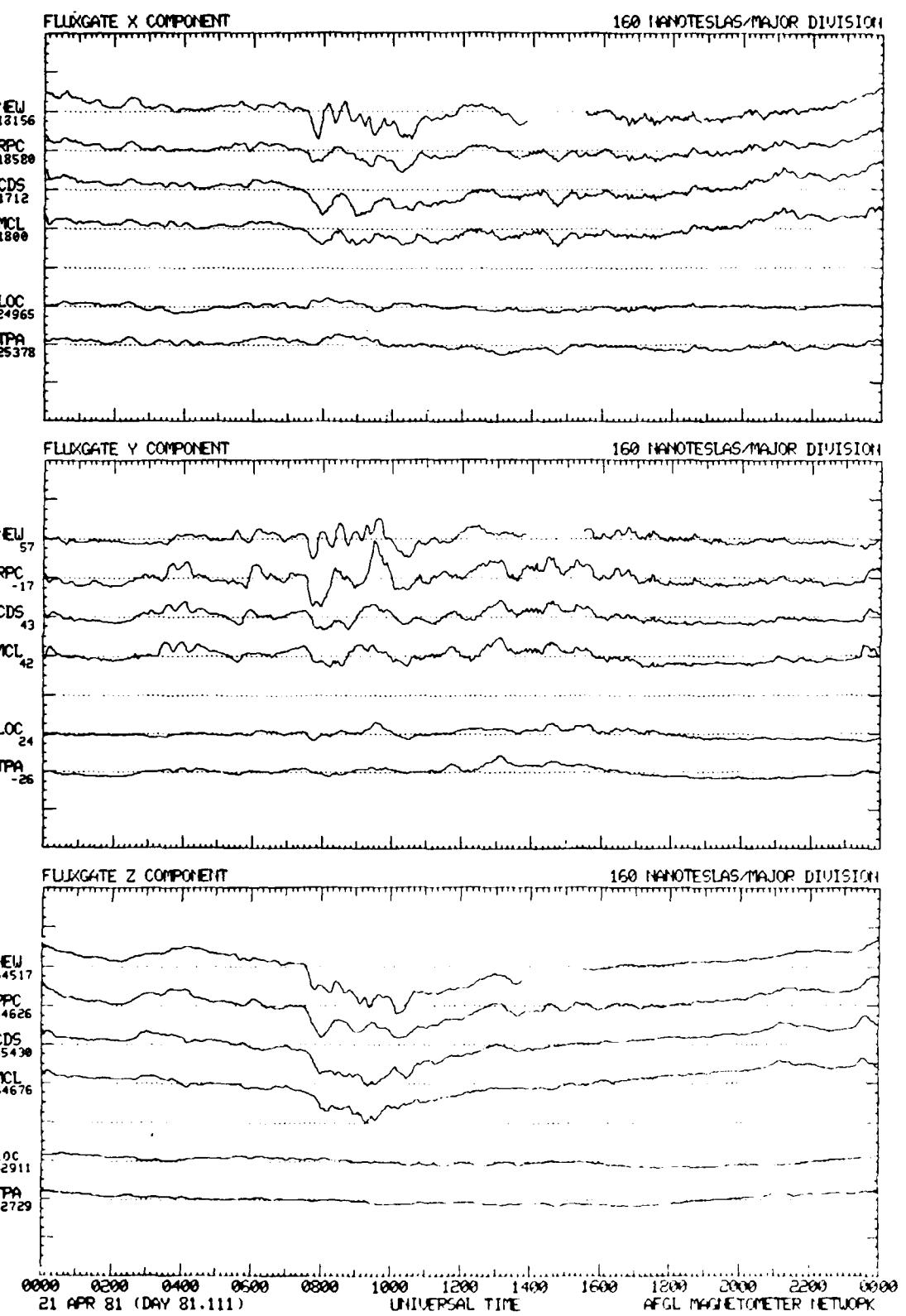
FLUXGATE Z COMPONENT

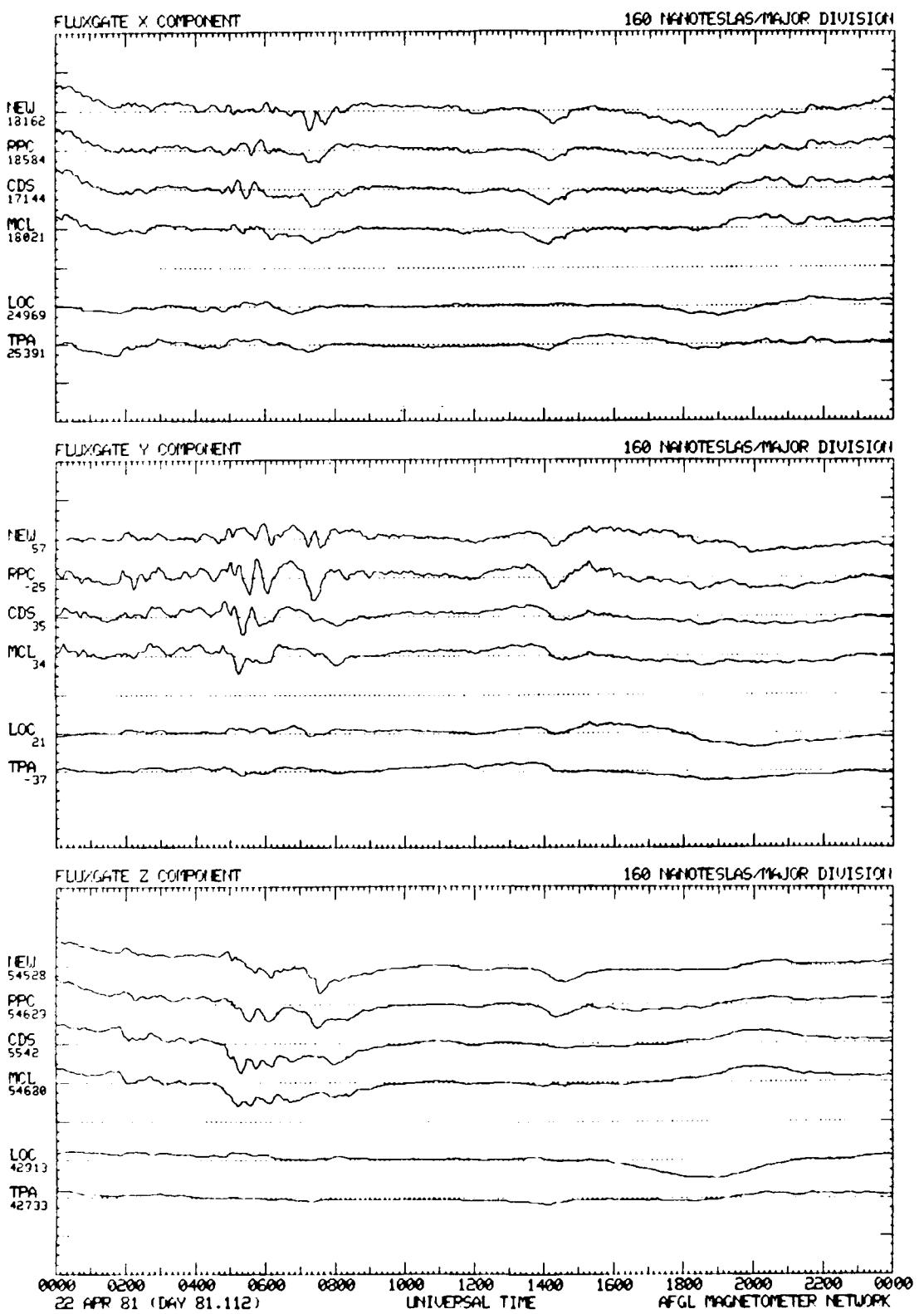
160 NANOTESLAS/MAJOR DIVISION

NEW
54697
PPC
54637
CDS
55402
MCL
54673
LOC
42879
TPA
427260000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 APR 81 (DAY 21.102) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



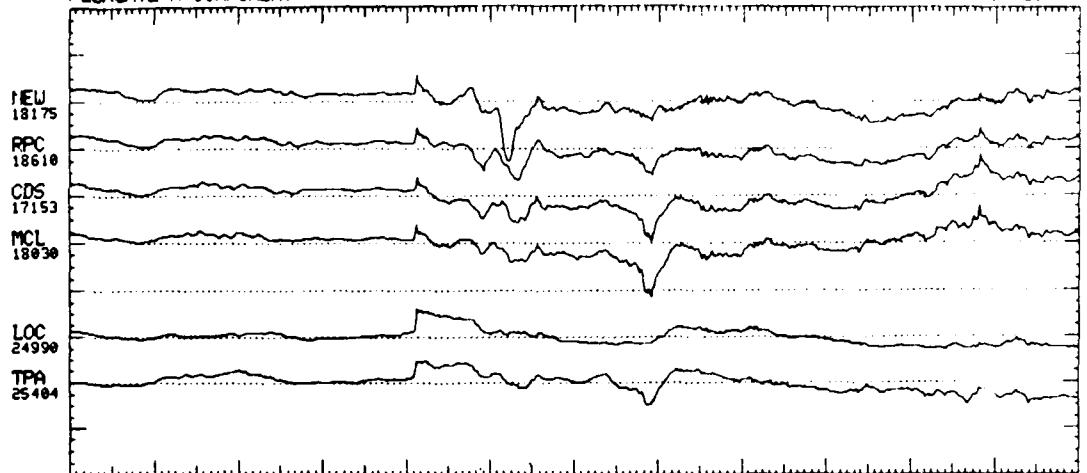






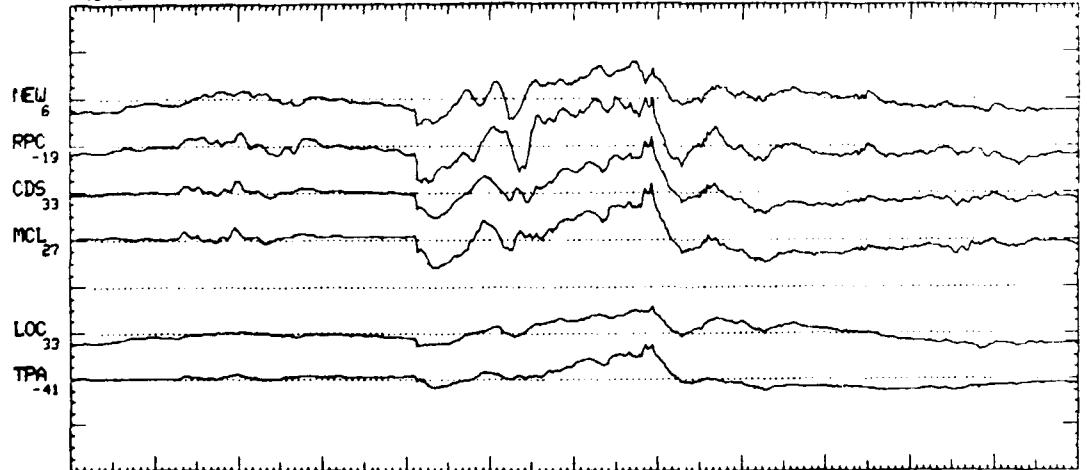
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION



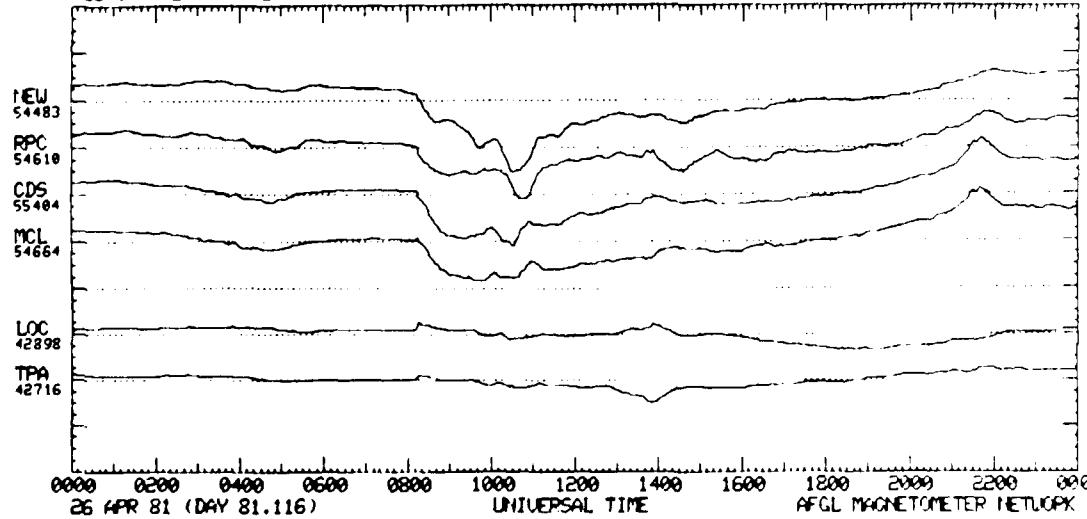
FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

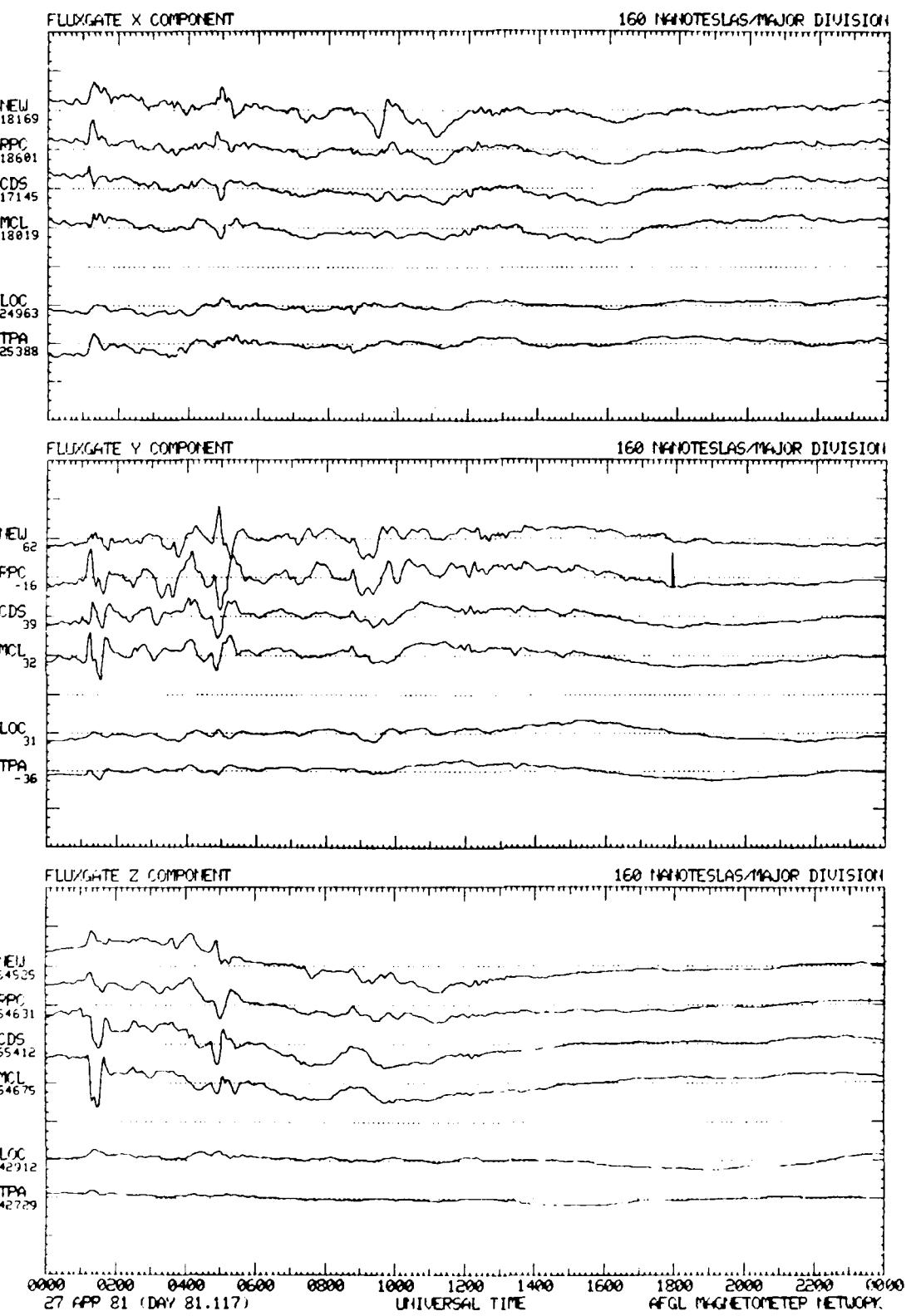


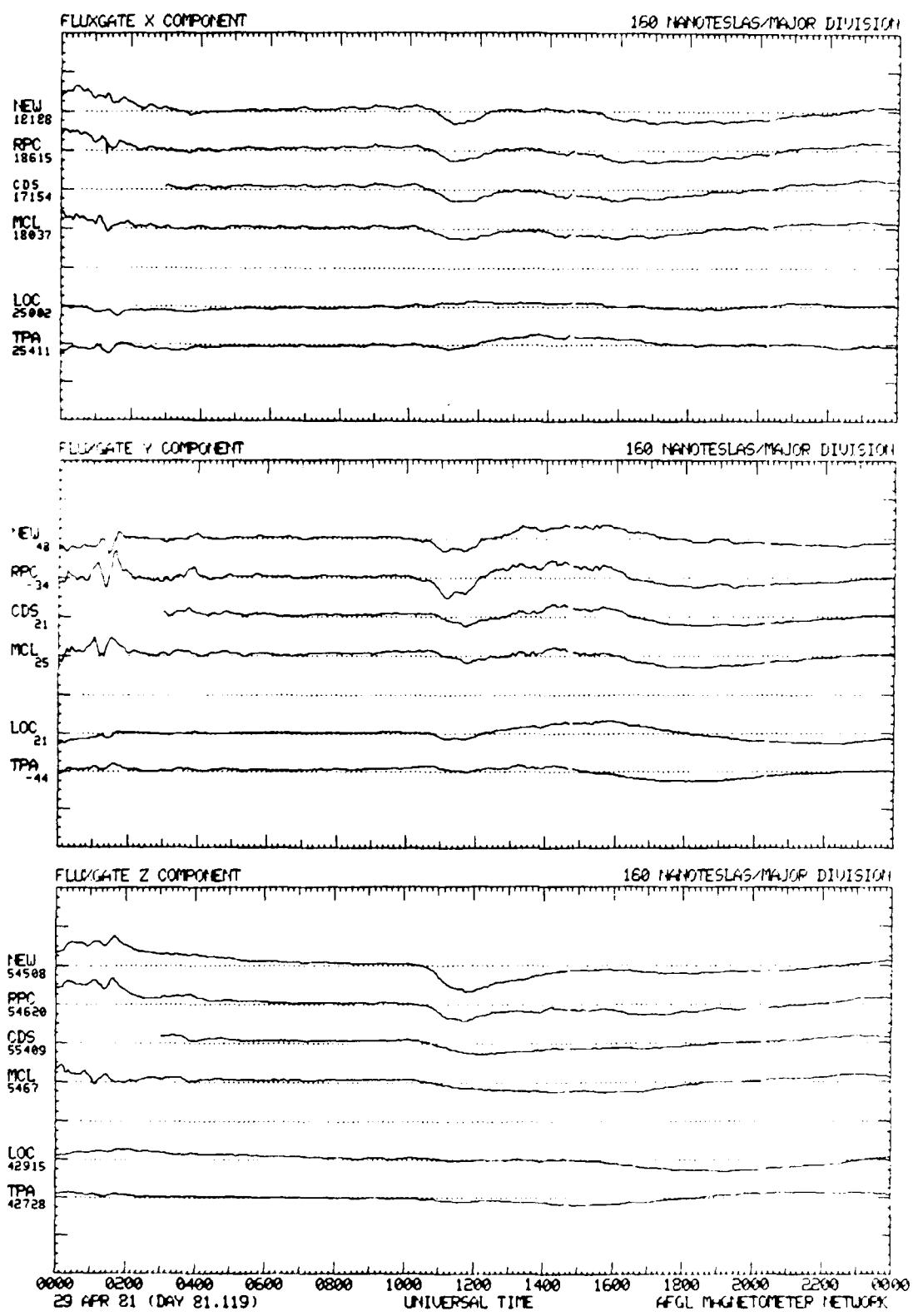
FLUXGATE Z COMPONENT

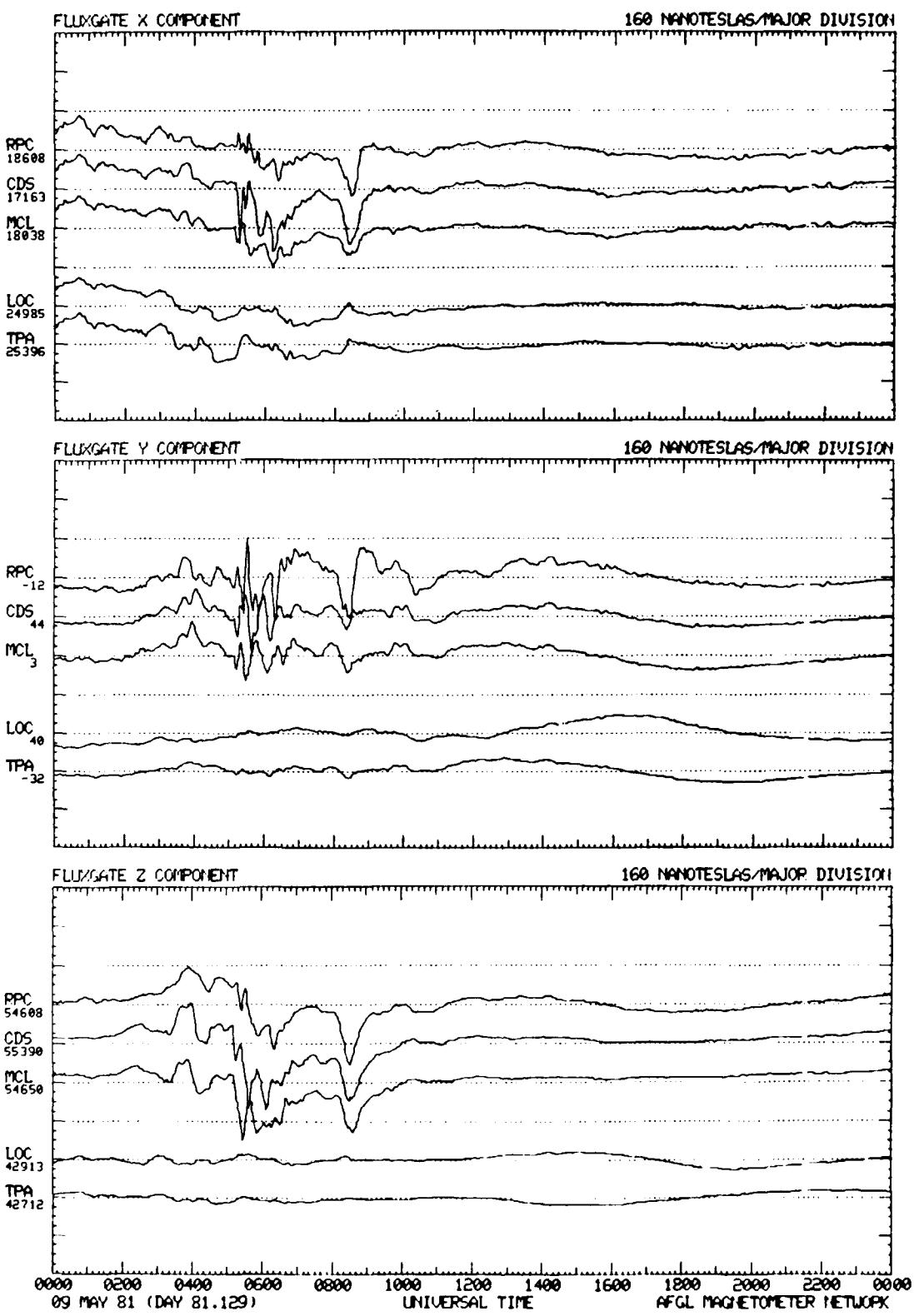
160 NANOTESLAS/MAJOR DIVISION

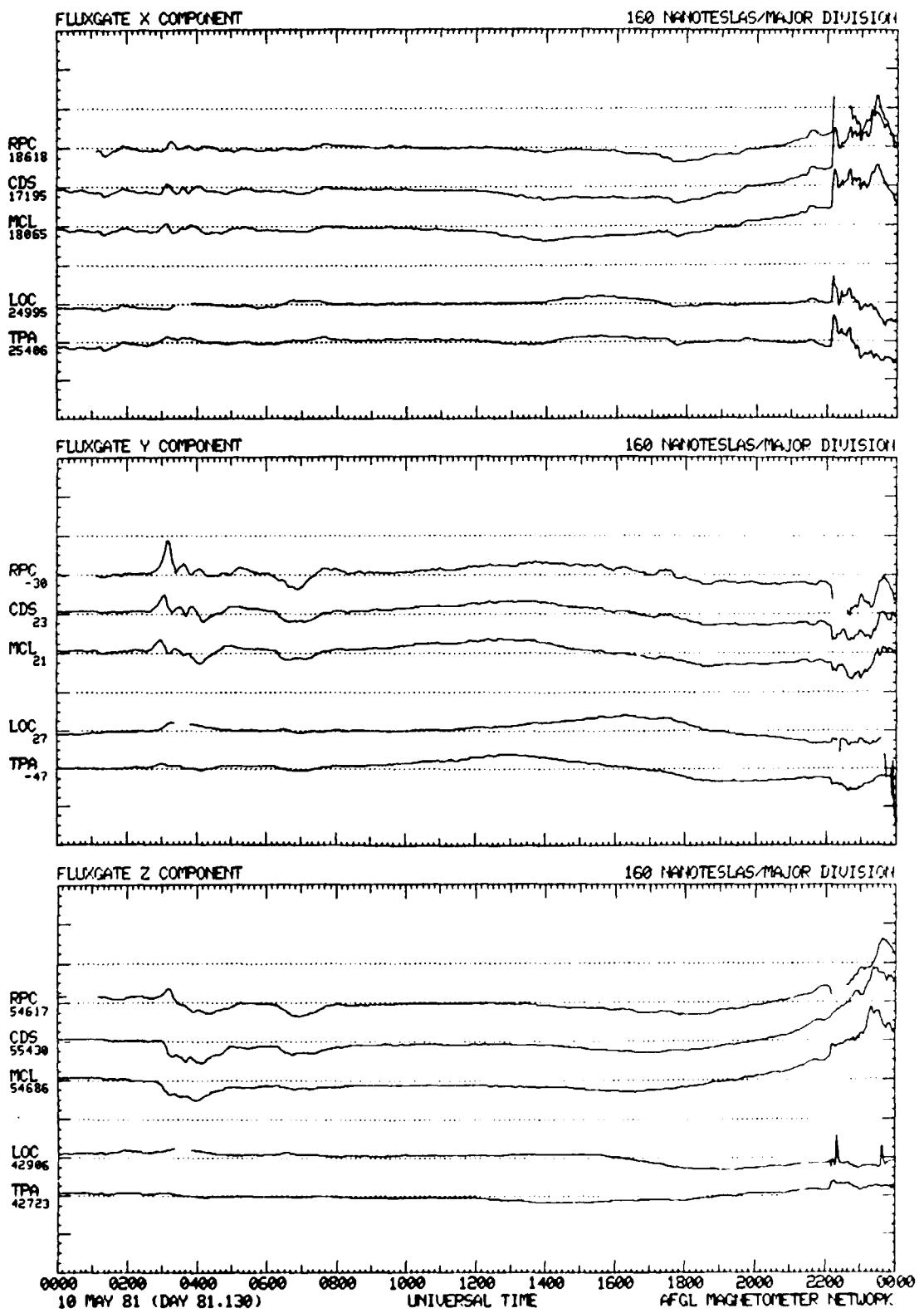


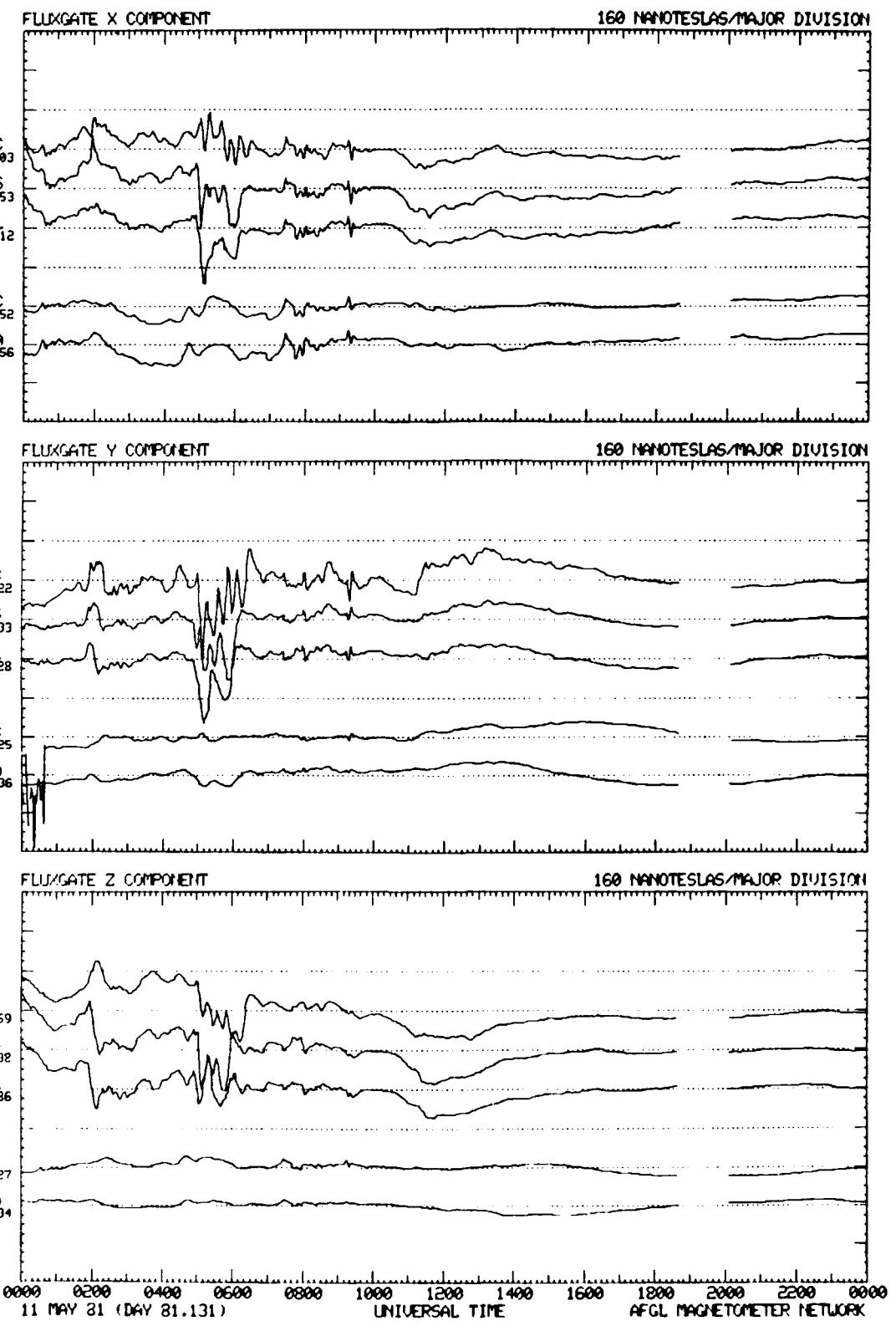
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 APR 81 (DAY 81.116) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

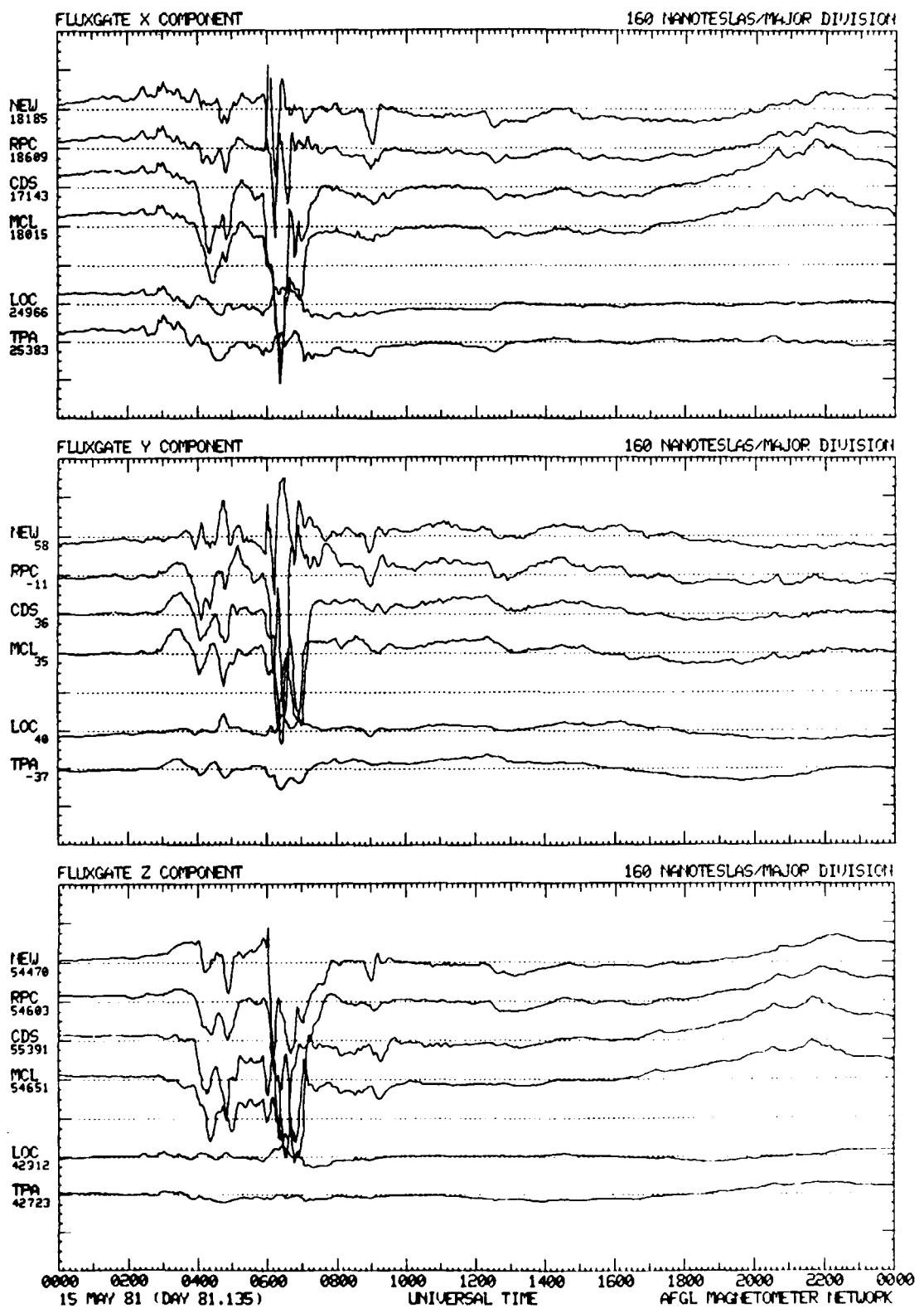


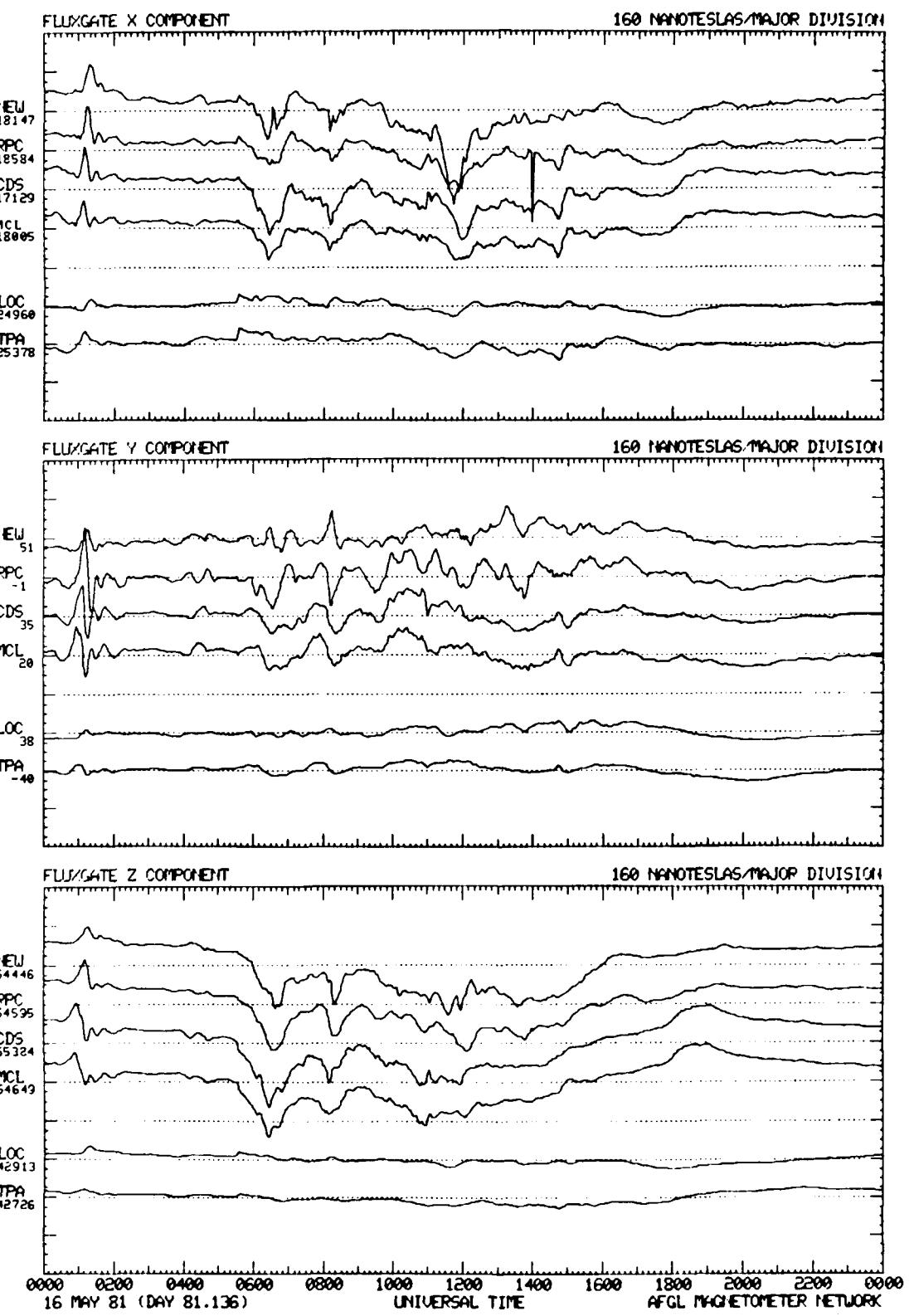


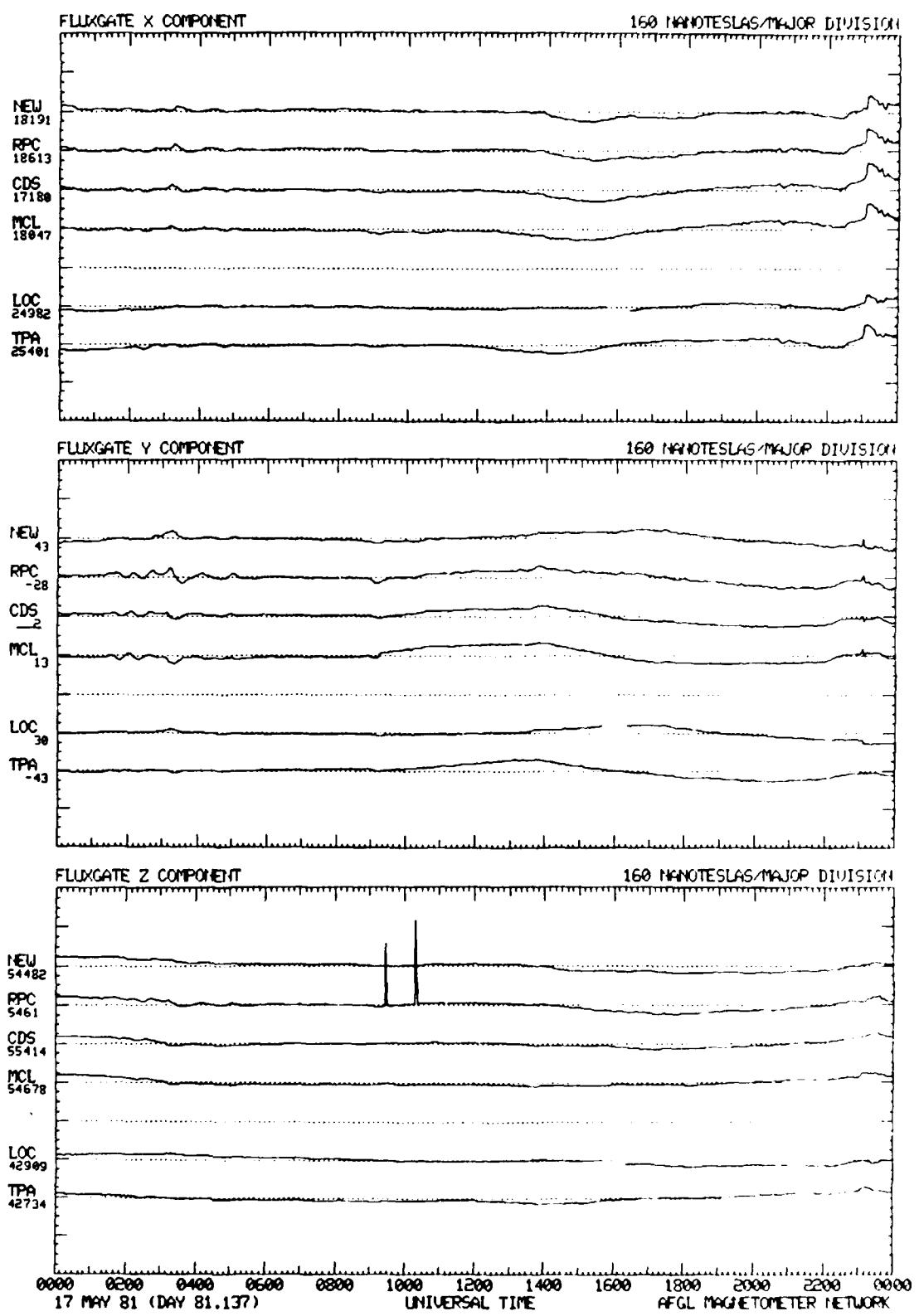


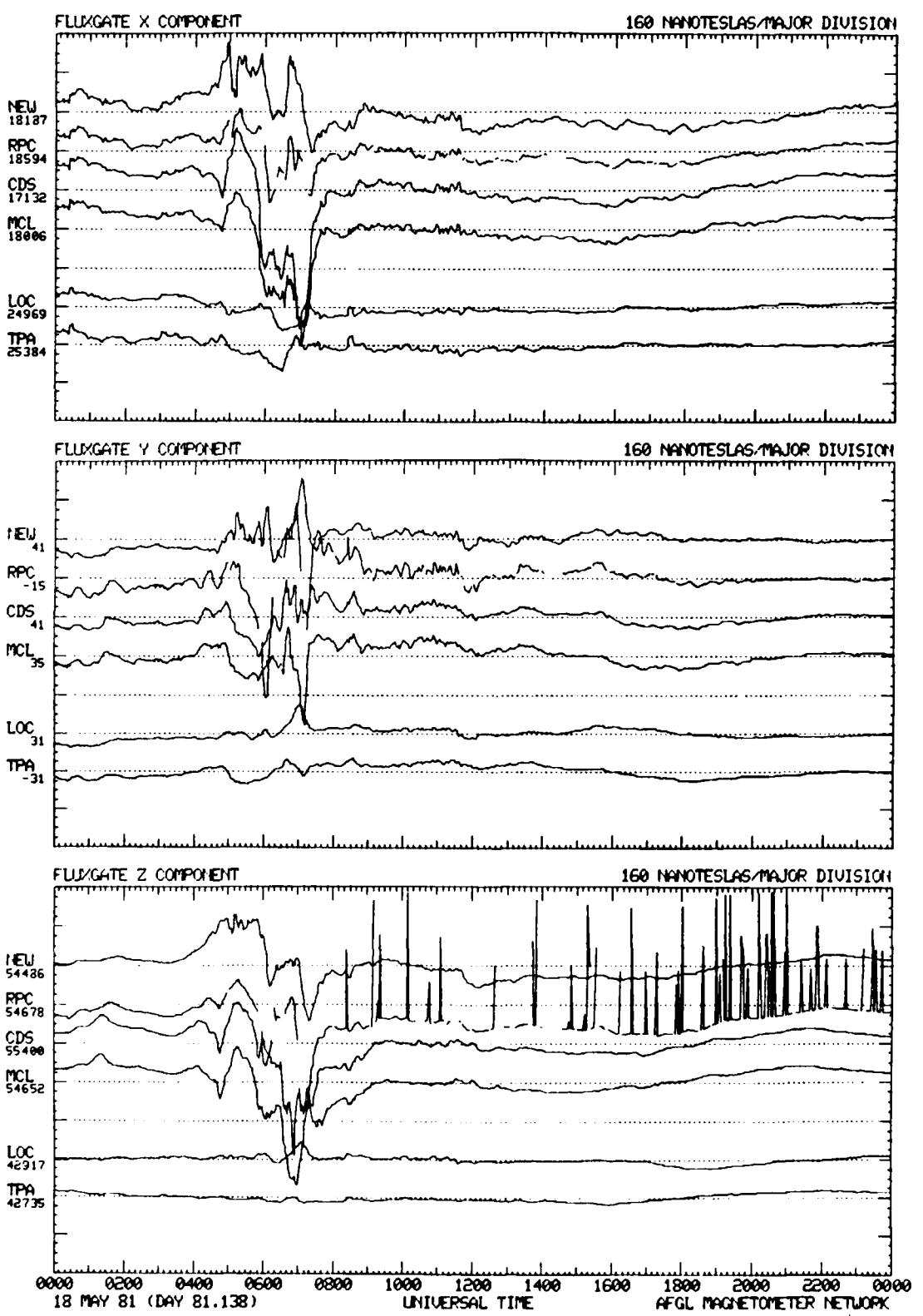


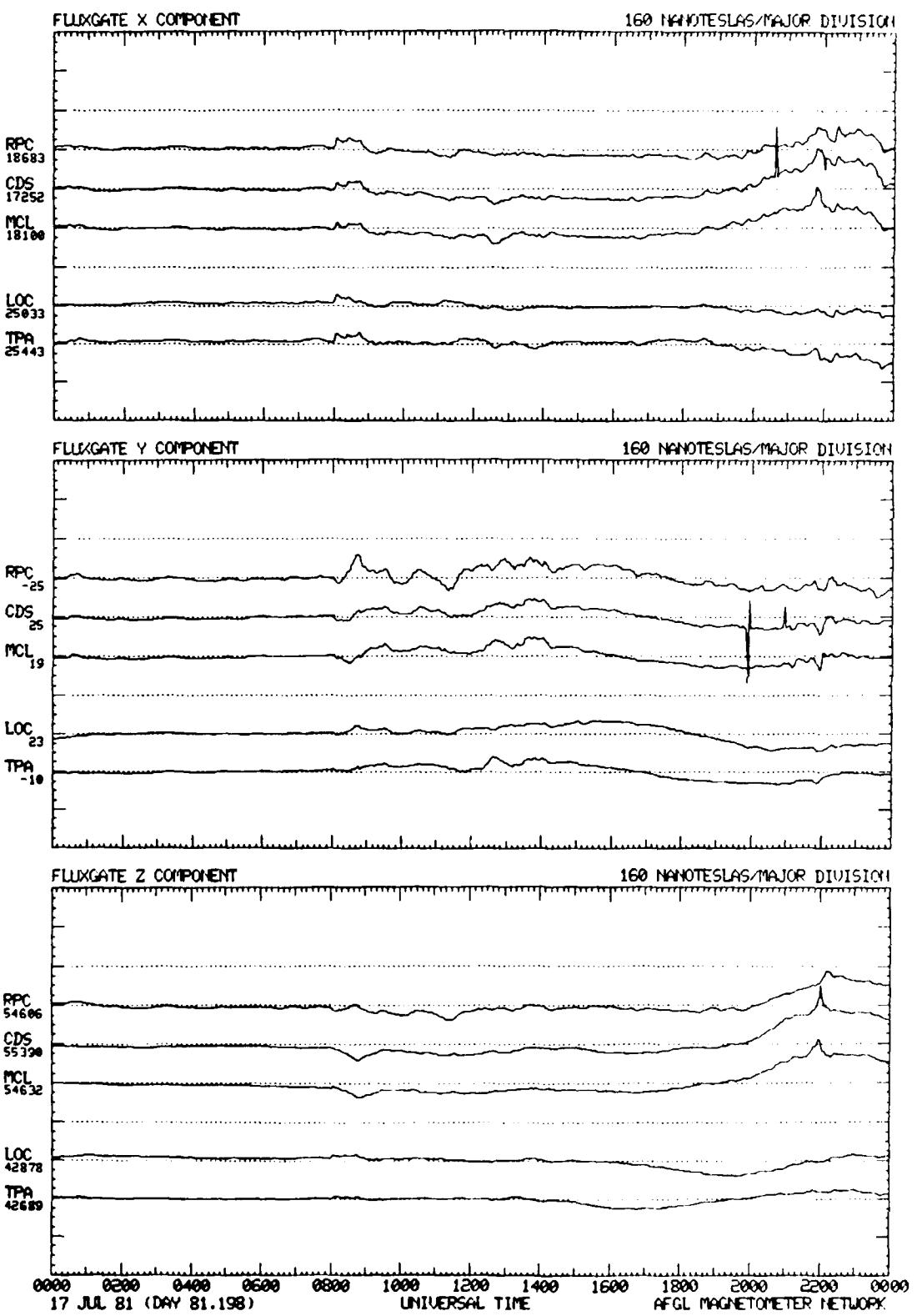


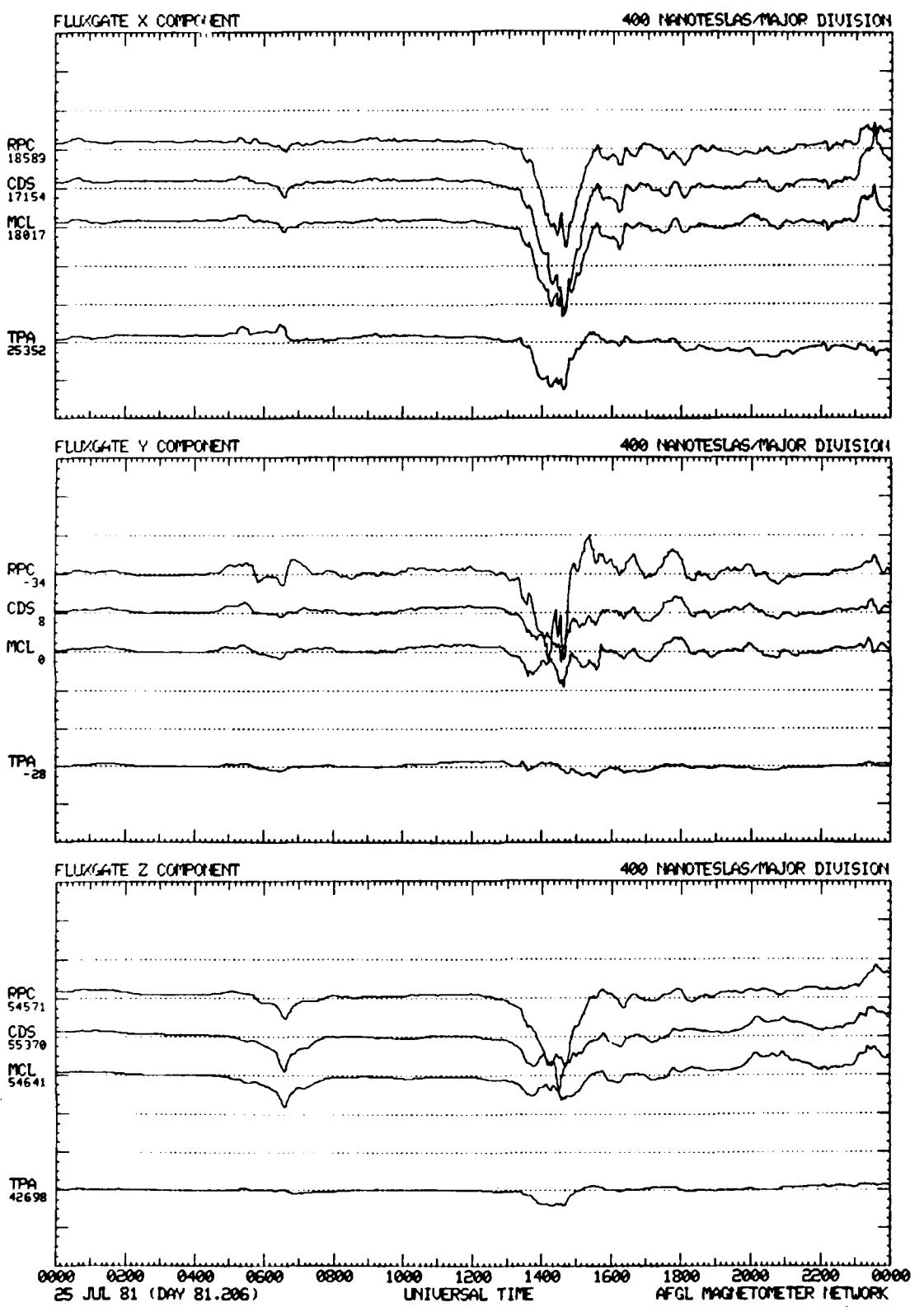












FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

RPC

18614

CDS

17173

MCL

18019

TPA

25345

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

RPC

39

CDS

39

MCL

25

TPA

-17

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

RPC

54630

CDS

55386

MCL

54625

TPA

42724

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 JUL 81 (DAY 81.207) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18228
RPC
18630
CDS
17198
MCL
18051LOC
25010

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
25
RPC
-26
CDS
15
MCL
16
LOC
31

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54420
RPC
54606
CDS
55368
MCL
54616
LOC
428850000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
29 AUG 81 (DAY 81.241) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU

1225

RPC

18635

CDS

17221

MCL

18075

LOC

25037

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU

28

RPC

-42

CDS

6

MCL

9

LOC

23

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU

54476

RPC

54588

CDS

55364

MCL

54598

LOC

42871

18 SEP 81 (DAY 81.261)

UNIVERSAL TIME

AFGL MAGNETOFLUX NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18248

1824

RPC

18624

CDS

17201

MCL

18056

LOC

25912

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
27

27

RPC

-34

CDS

22

MCL

22

LOC

25

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54491

54491

PPC

54606

CDS

55369

MCL

54608

LOC

42822

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 SEP 81 (DAY 81.262) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18195RPC
12598CDS
17173MCL
18039LOC
24983

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
22RPC
-26CDS
13MCL
12LOC
29

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54477RPC
54592CDS
55357MCL
54596LOC
42880

08 OCT 81 (DAY 81.281)

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200
UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18153
RPC
18564
CDS
17148
MCL
18021LOC
24972

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
3
RPC
-31
CDS
-3
MCL
-7LOC
31

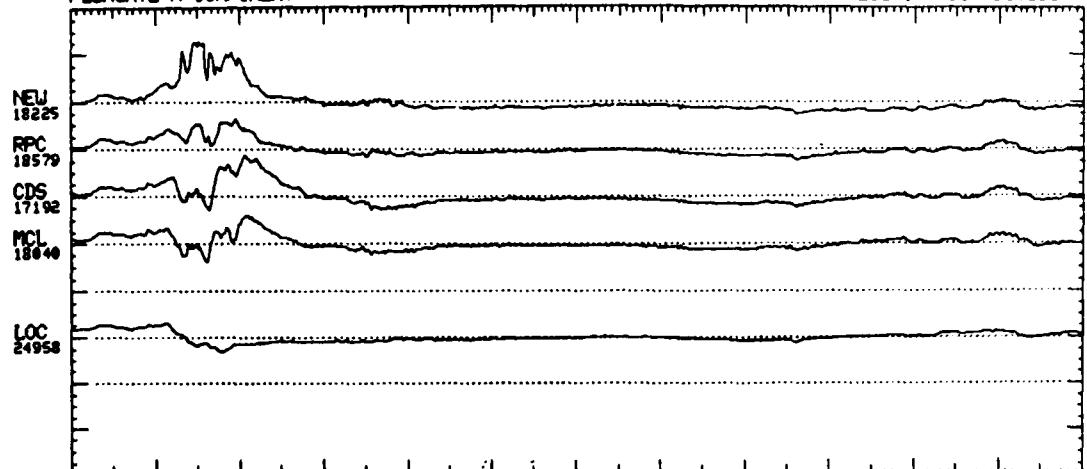
FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54434
RPC
54552
CDS
55317
MCL
54574LOC
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11 OCT 81 (DAY 81.284) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

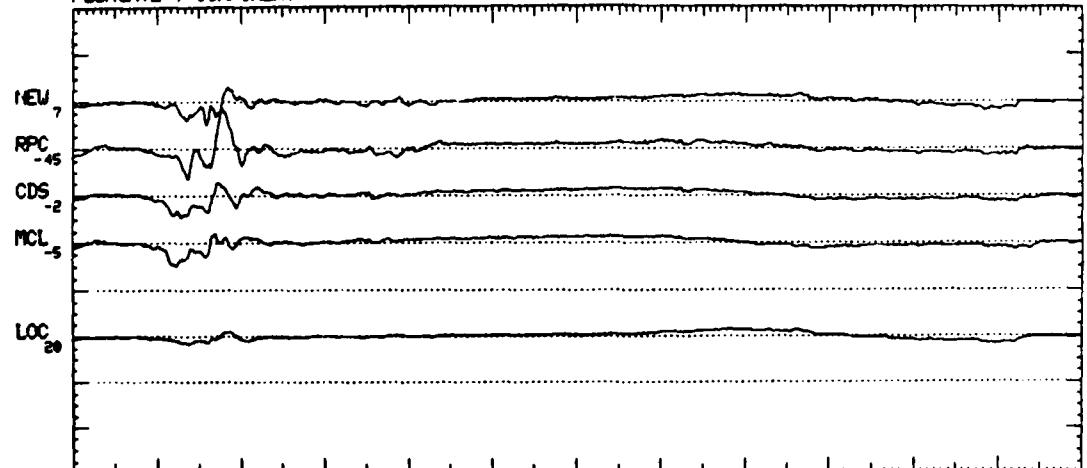
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400 NANOTESLAS/MAJOR DIVISION



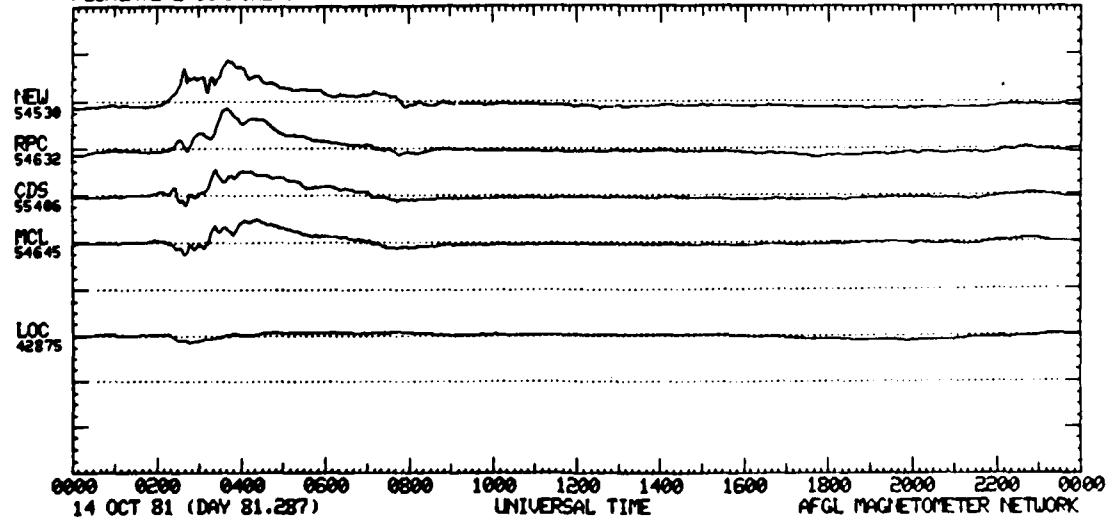
FLUXGATE Y COMPONENT

400 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

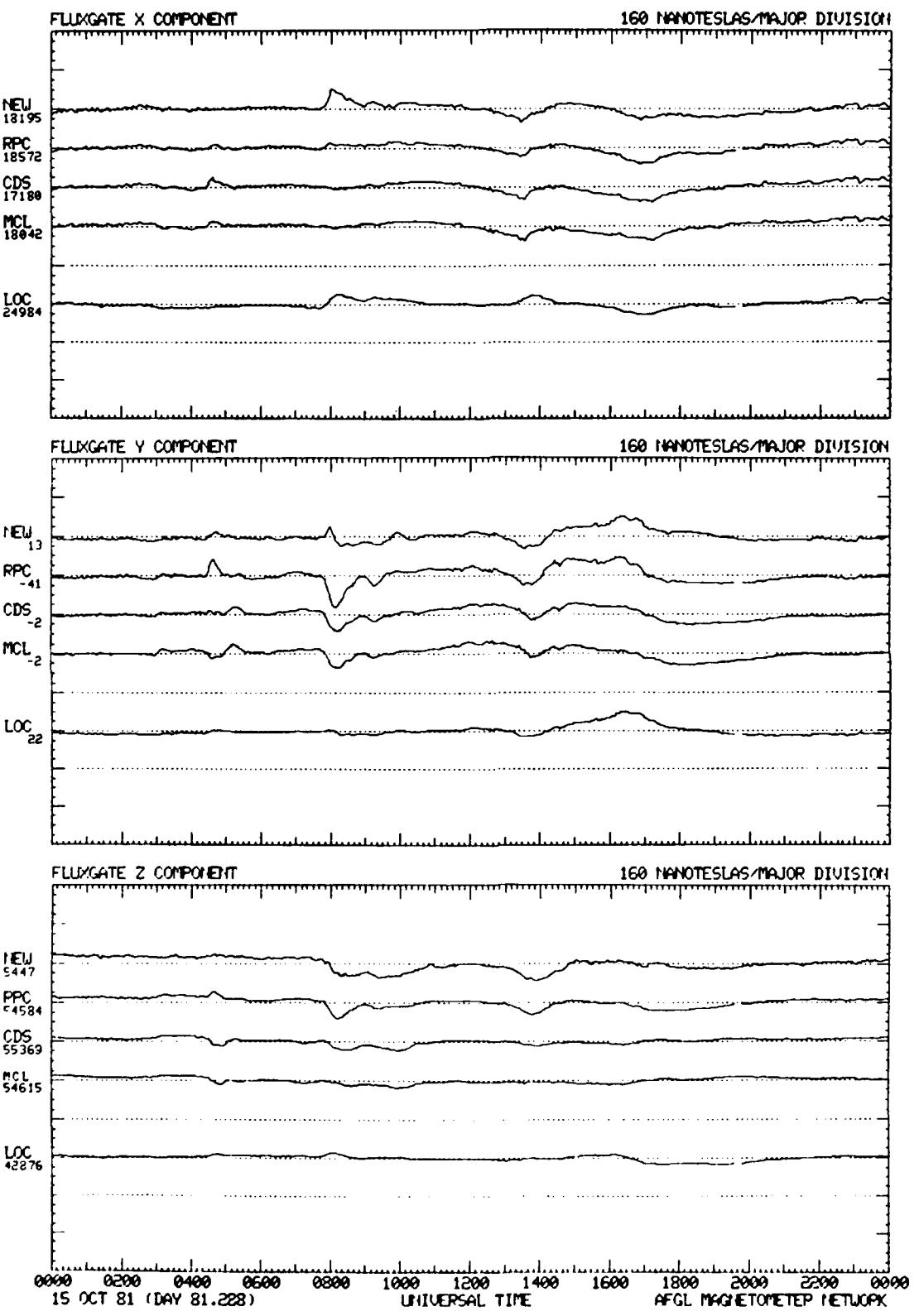
400 NANOTESLAS/MAJOR DIVISION

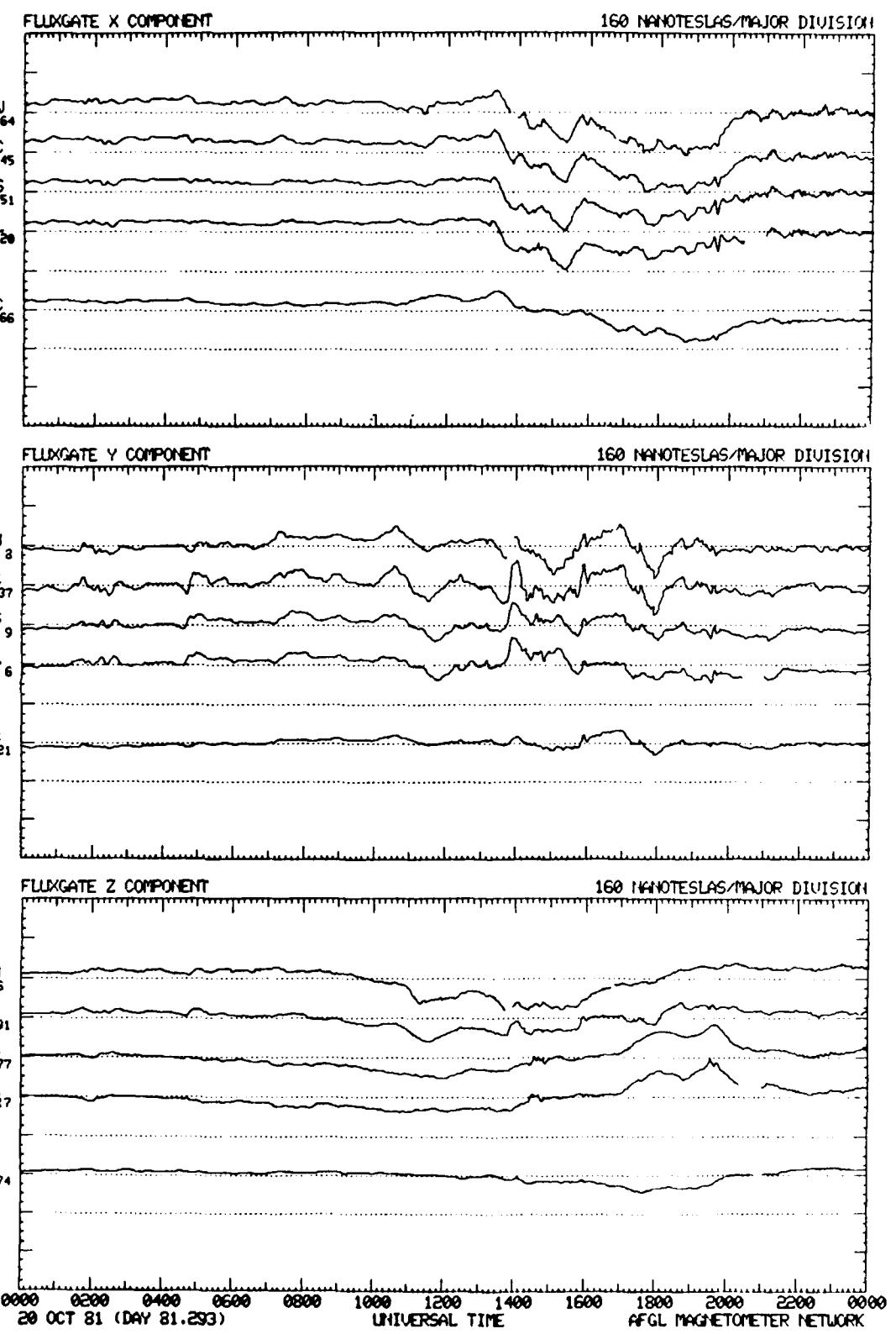


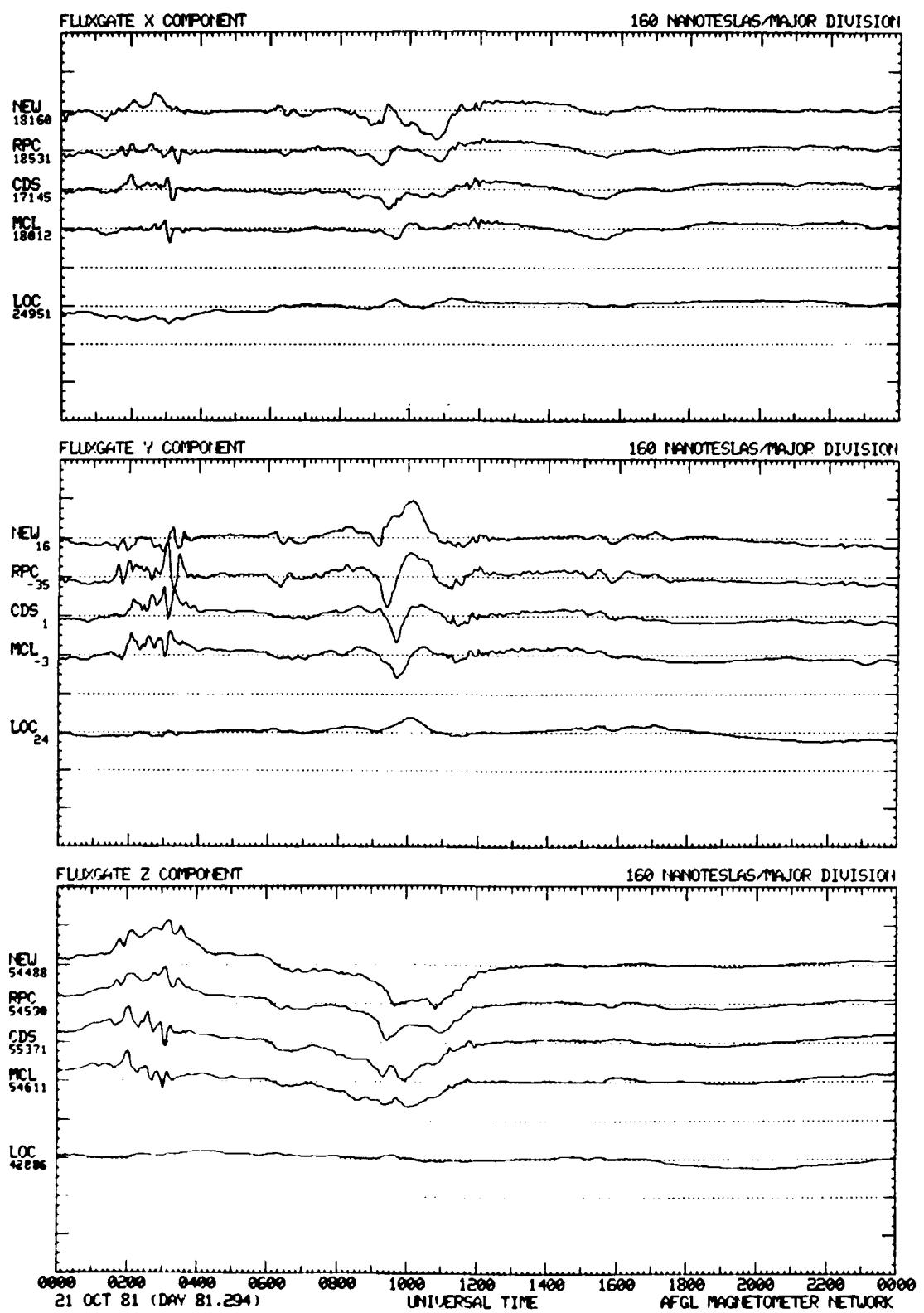
14 OCT 81 (DAY 81.287)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

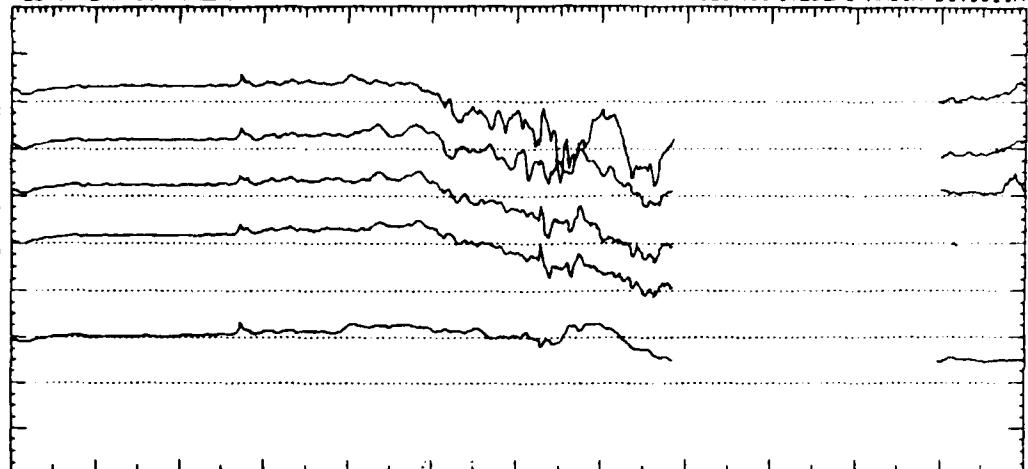






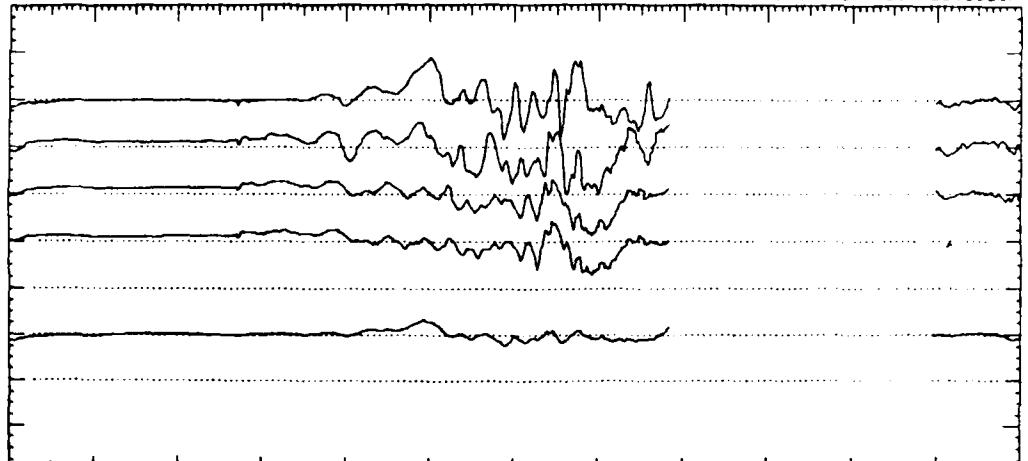
FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18138
RPC
12529
CDS
17136
MCL
18910LOC
24969

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

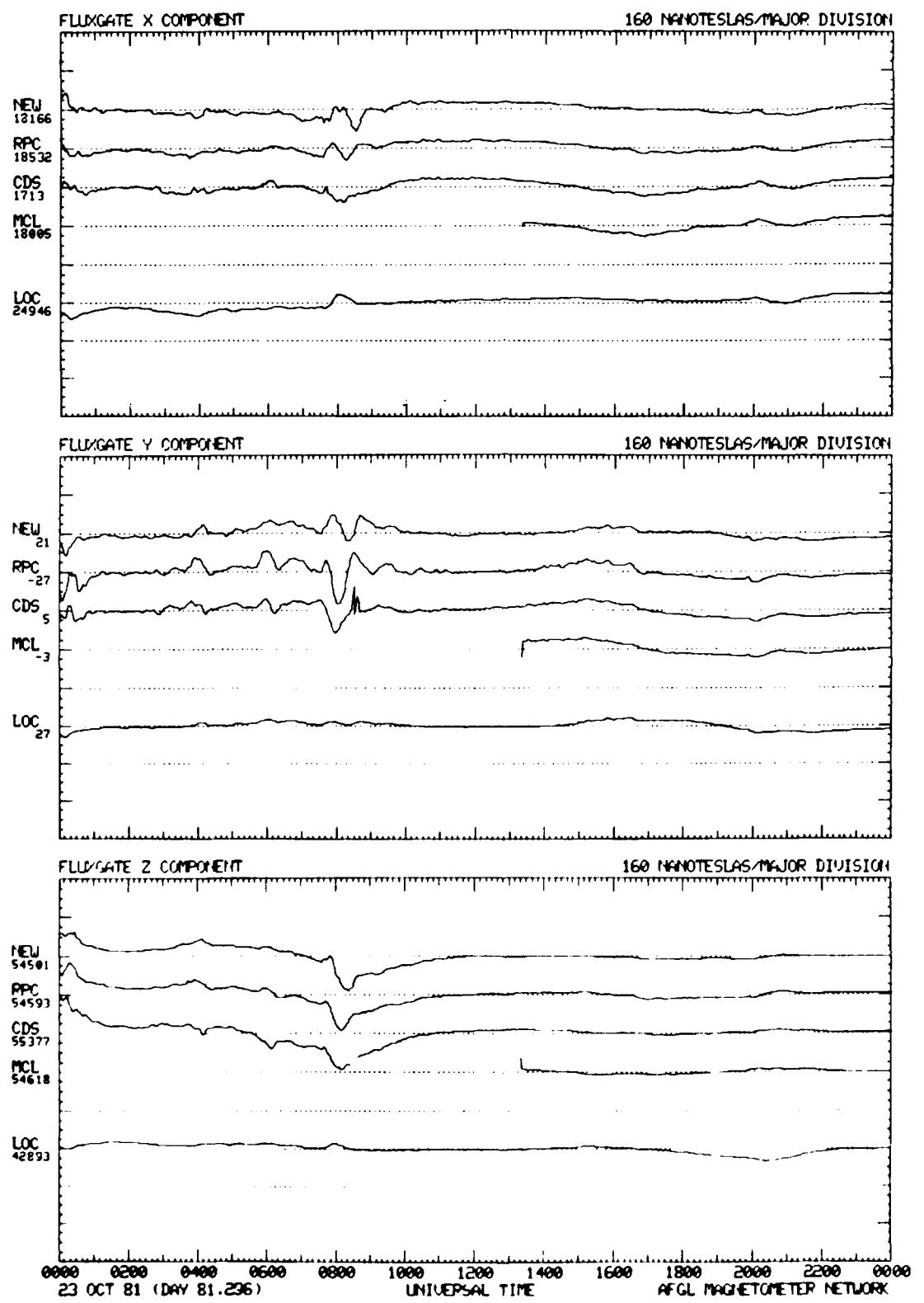
NEW
7
RPC
57
CDS
26
MCL
29LOC
15

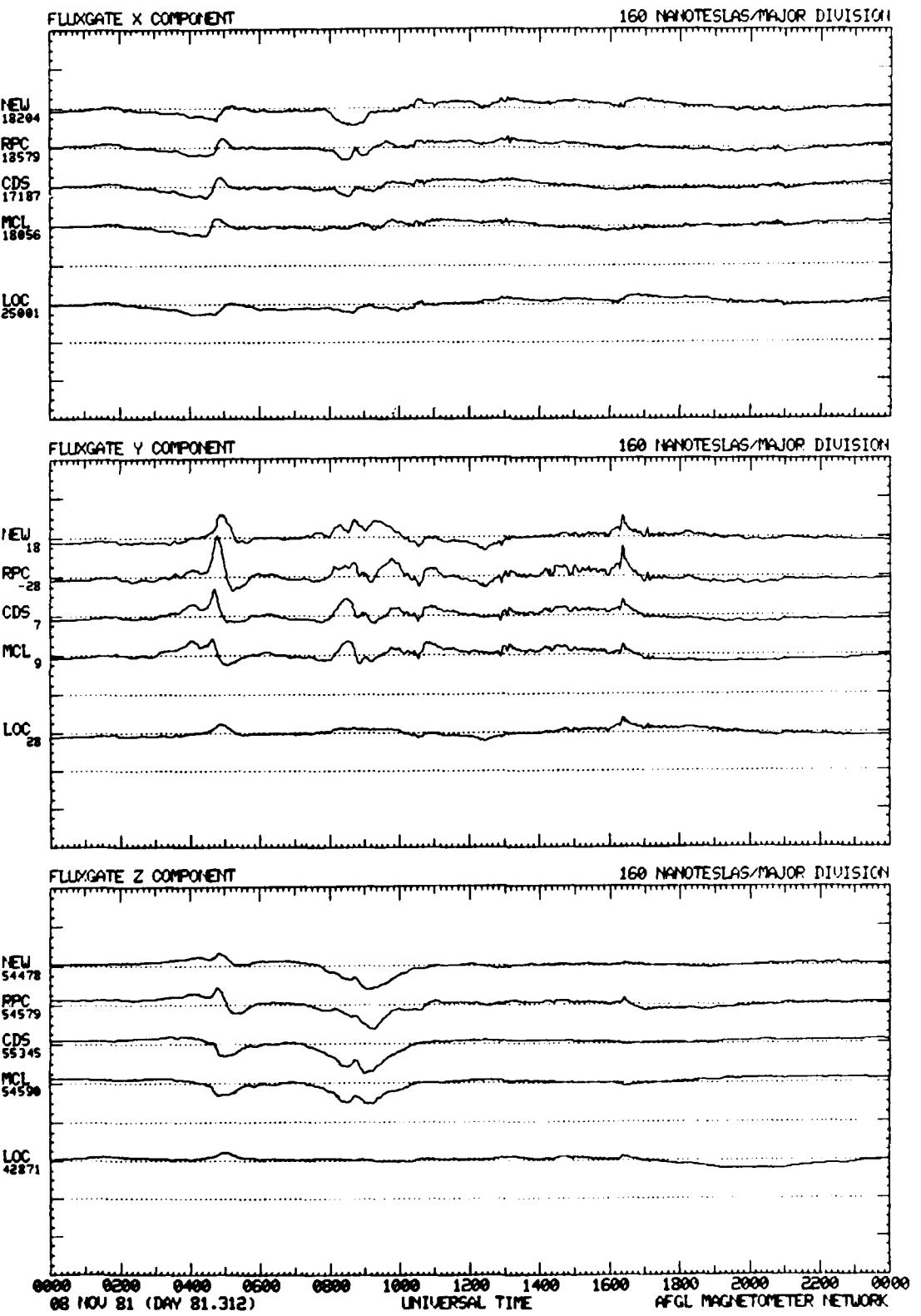
FLUXGATE Z COMPONENT

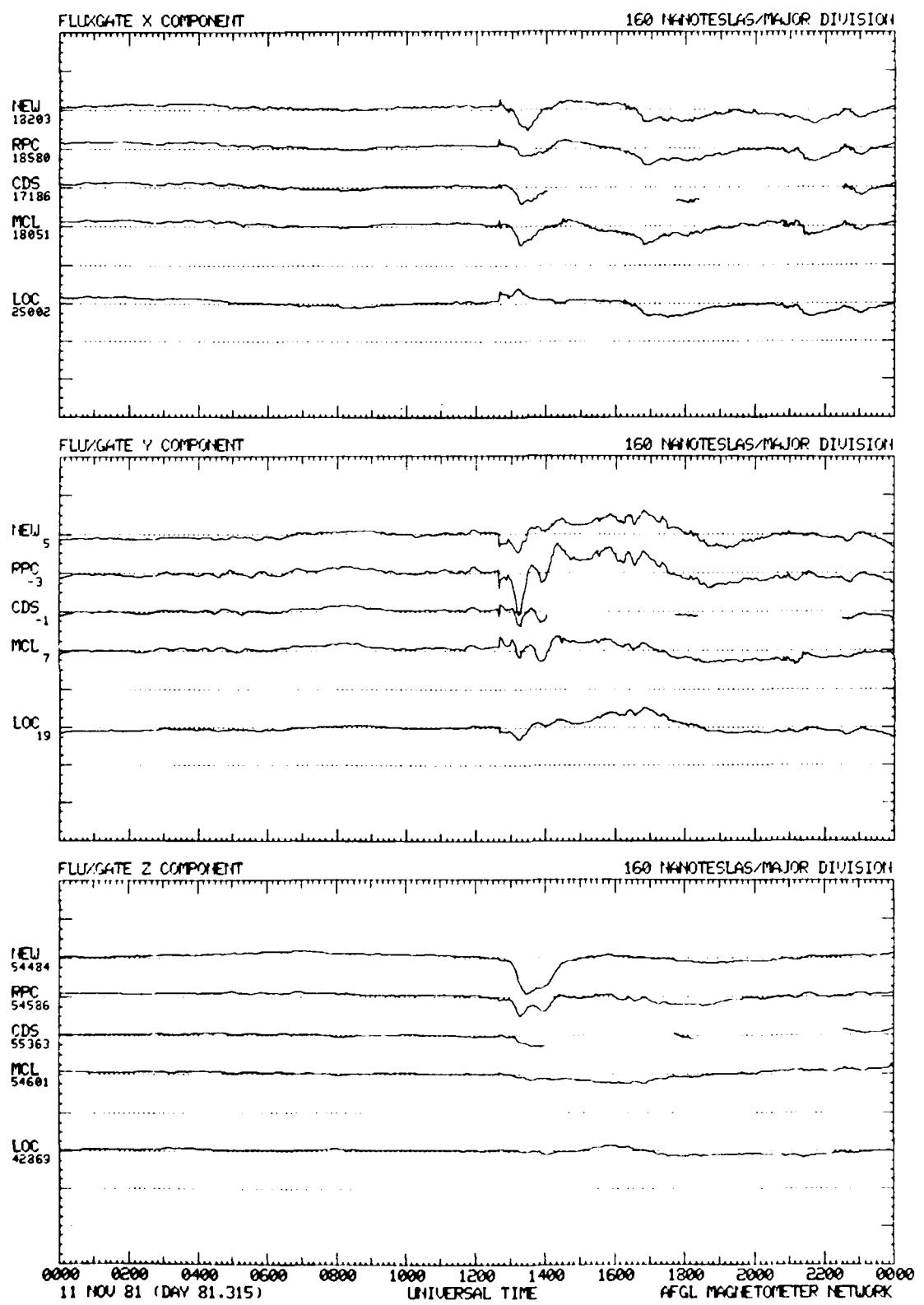
160 NANOTESLAS/MAJOR DIVISION

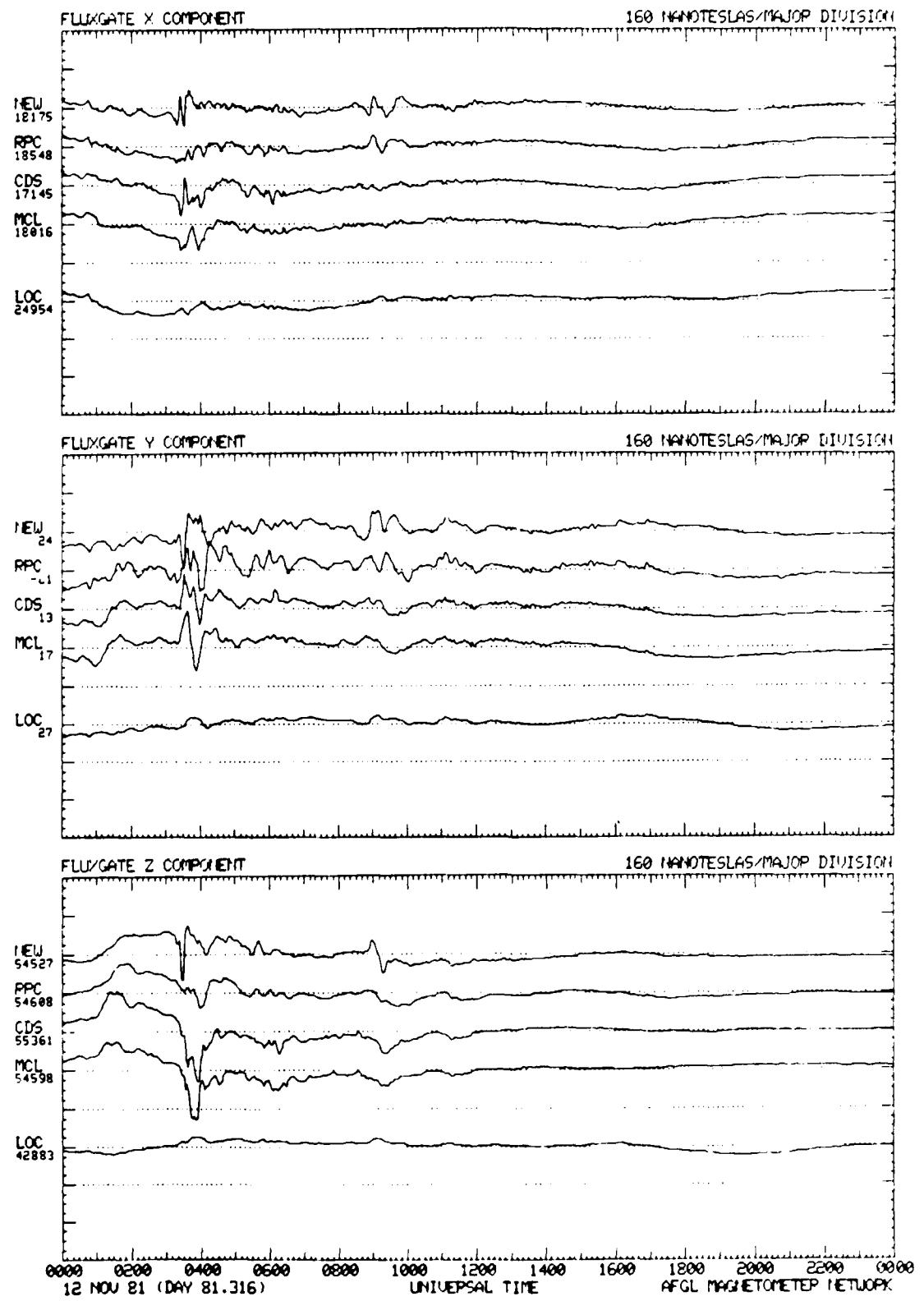
NEW
54405
RPC
54544
CDS
55343
MCL
54983LOC
43877

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 OCT 81 (DAY 81.295) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
12198RPC
18578CDS
17177MCL
1805LOC
24999

FLUXGATE Y COMPONENT

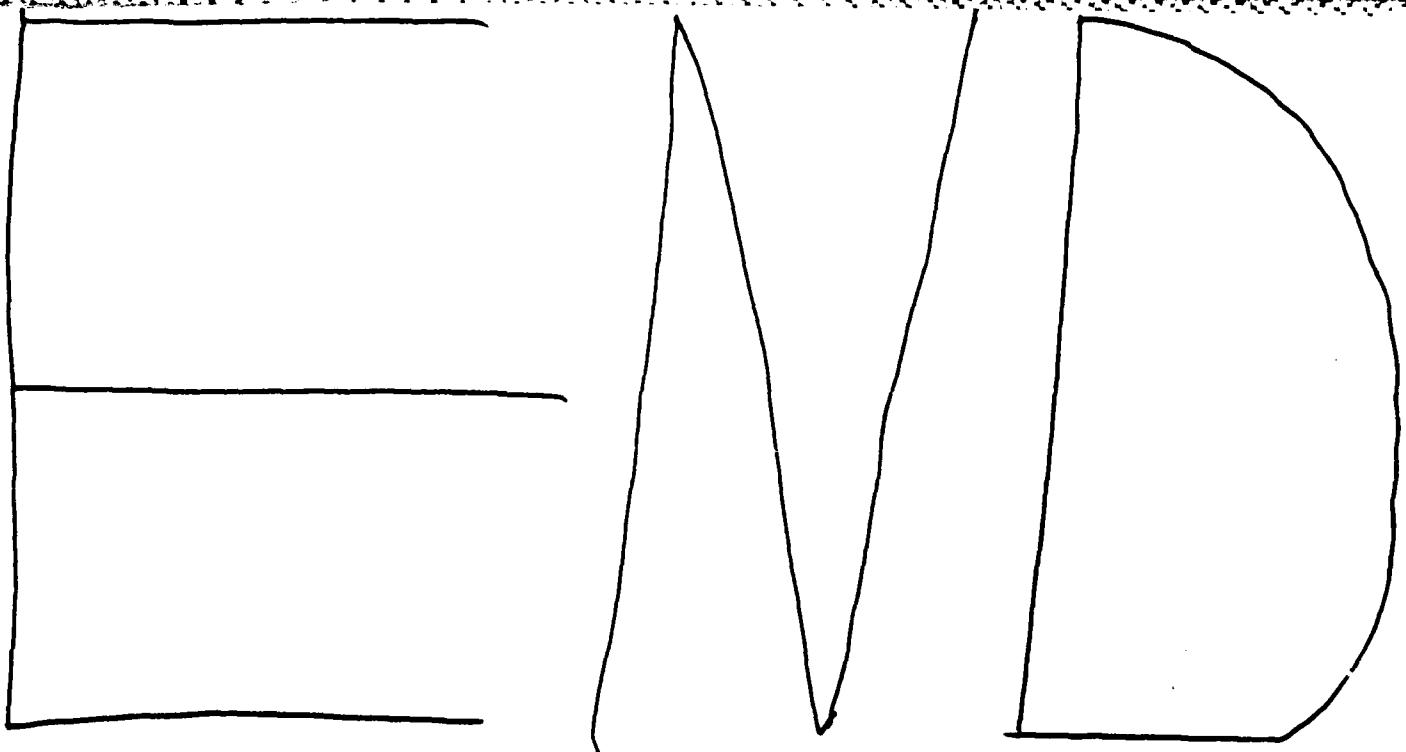
160 NANOTESLAS/MAJOR DIVISION

NEW
0PPC
-48CDS
-18MCL
-13LOC
15

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54484PPC
54583CDS
55350MCL
54693LOC
428740000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
14 NOV 81 (DAY 81.318) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



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